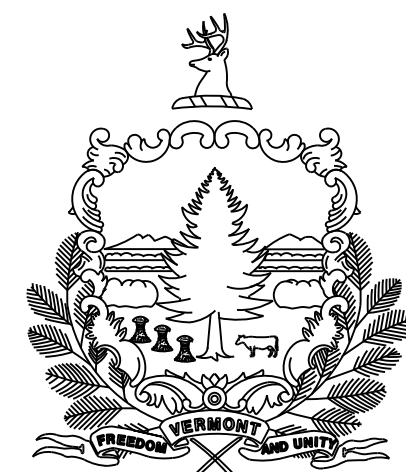


REVIEWER NOTES

- 1) UTILITY RELOCATION IS NOT ANTICIPATED TO BE NECESSARY ON THIS PROJECT
- 2) RIGHT-OF-WAY IS ANTICIPATED TO BE NECESSARY FOR THIS PROJECT AS THE INLET AND OUTLET OF THE STRUCTURE ALREADY OUTSIDE THE STATE RIGHT-OF-WAY.
- 3) TRAFFIC CONTROL IS A 28 DAY CLOSURE WITH AN OFF SITE DETOUR, USING VT ROUTE 100 AND VT ROUTE 103.
- 4) THERE IS AN EXISTING DRY HYDRANT AT THE OUTLET OF THE CULVERT. THE DRY HYDRANT WILL REMAIN IN PLACE THROUGH CONSTRUCTION.
- 5) THERE IS AN EXISTING BURIED TELEPHONE CABLE TO THE WEST OF THE ROAD. IT IS IN THE PROCESS OF BEING DECOMMISSIONED.

# STATE OF VERMONT AGENCY OF TRANSPORTATION



## PROPOSED IMPROVEMENT BRIDGE PROJECT

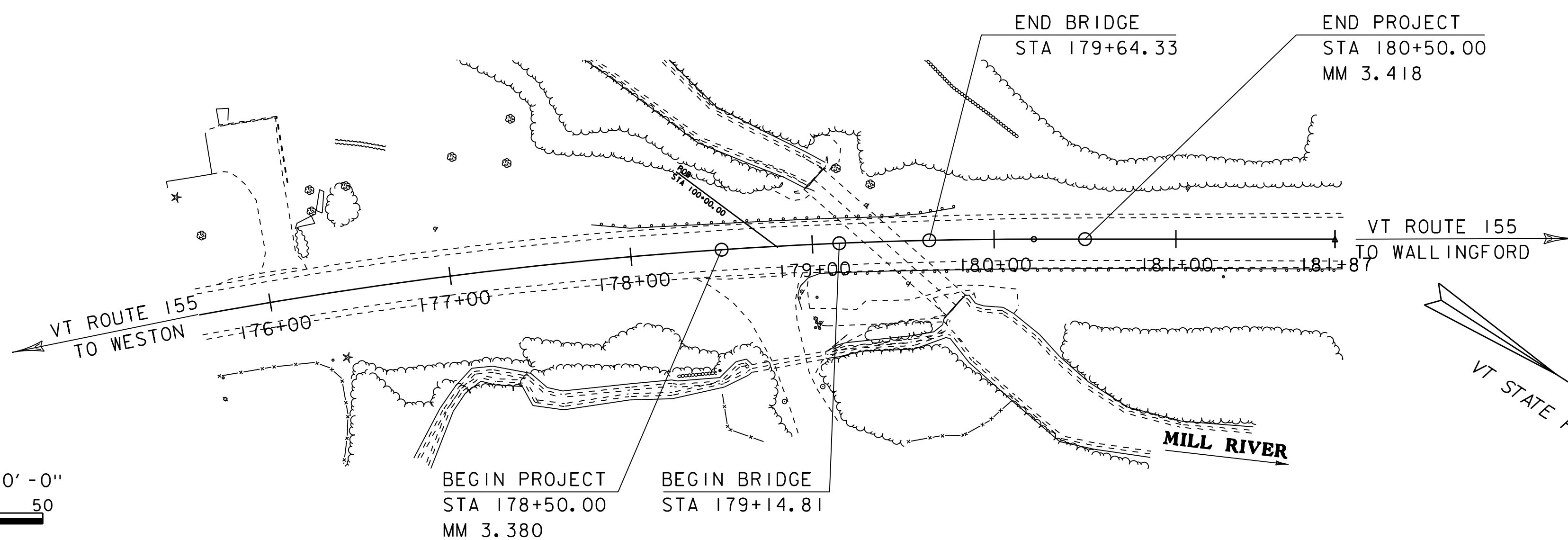
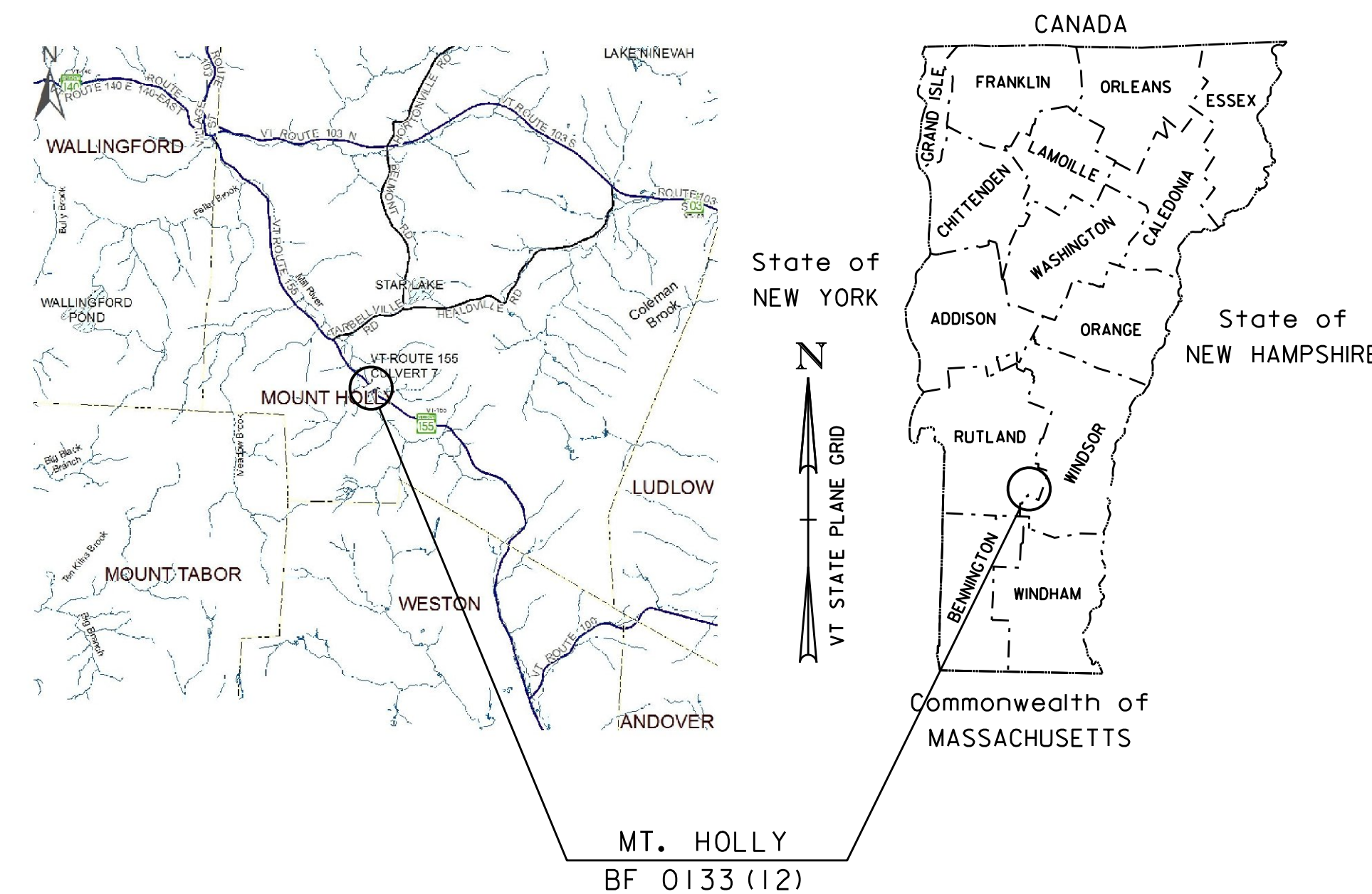
TOWN OF MT. HOLLY  
COUNTY OF RUTLAND

ROUTE NO : VT ROUTE 155      BRIDGE NO : 7

PROJECT LOCATION :      APPROXIMATELY 5.8 MILES NORTH OF THE JUNCTION  
BETWEEN VT ROUTE 100 AND VT ROUTE 155

PROJECT DESCRIPTION :      REMOVAL OF EXISTING CULVERT, AND REPLACEMENT  
WITH A NEW OPEN BOTTOMED BURIED STRUCTURE.

LENGTH OF STRUCTURE:                      49.52    FEET.  
LENGTH OF ROADWAY:                      150.48    FEET.  
LENGTH OF PROJECT:                      200.00    FEET.



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 2	
SURVEYED BY :	H. MCGOWAN
SURVEYED DATE :	12-22-2015
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (2011)

SCALE 1" = 50' - 0"  
50 0 50

**PRELIMINARY PLANS**  
**09-NOV-2018**

DIRECTOR OF PROJECT DELIVERY	
APPROVED _____	DATE _____
PROJECT MANAGER : ROB YOUNG P. E.	
PROJECT NAME :	MT. HOLLY
PROJECT NUMBER :	BF 0133 (12)
SHEET 1 OF 25 SHEETS	



# PRELIMINARY INFORMATION SHEET (CULVERT)

INDEX OF SHEETS

FINAL HYDRAULIC REPORT

PLAN SHEETS

1	TITLE SHEET
2	PRELIMINARY INFORMATION SHEET
3	TYPICAL SECTIONS
4 - 5	QUANTITY SHEET 1-2
6	SYMBOLOLOGY LEGEND
7	TIE SHEET
8	LAYOUT SHEET
9 - 10	PROFILE SHEET 1-2
11	BANKING AND MATERIAL TRANSITION DIAGRAM
12	UTILITY LAYOUT PLAN
13	OFFSITE DETOUR LAYOUT
14	BORING INFORMATION SHEET
15 - 16	BORING LOGS 1-2
17 - 20	VT 155 CROSS SECTIONS SHEET 1-4
21 - 26	CHANNEL SECTIONS SHEET 1-6
27	RESOURCE SITE PLAN
28	EPSC EXISTING CONDITIONS
29	EPSC CONSTRUCTION CONDITIONS
30	EPSC FINAL CONDITIONS

STANDARDS LIST

B-71	STANDARD FOR RESIDENTIAL AND COMMERCIAL DRIVES	07-08-2005
G-1	STEEL BEAM GUARDRAIL DETAILS (POST, DELINEATOR, TYPICALS)	03-10-2017
G-1D	STEEL BEAM GUARDRAIL DETAILS (END TERMINAL, ANCHOR, MEDIUM)	03-10-2017
J-3	MAIL BOX SUPPORT DETAILS	08-07-1995
T-1	TRAFFIC CONTROL GENERAL NOTES	04-25-2016
T-2	TRAFFIC SIGN GENERAL NOTES	04-25-2016
T-40	DELINEATORS AND MILEPOSTS	01-02-2013
T-42	BRIDGE NUMBER PLAQUE	04-09-2014
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01-02-2013
T-56	STANDARD SIGN PLACEMENT	10-26-2015

DETAIL SHEETS

SD-501.00	CONCRETE DETAILS AND NOTES	2/9/2012
SD-502.00	CONCRETE DETAILS AND NOTES	10/10/2012

Blank area for the Final Hydraulic Report, including diagrams and calculations.

TRAFFIC MAINTENANCE NOTES

1. MAINTAIN TRAFFIC ON AN OFF SITE DETOUR.
2. TRAFFIC SIGNALS ARE NOT NECESSARY.
3. SIDEWALKS ARE NOT NECESSARY.

DESIGN VALUES

1. DESIGN LIVE LOAD	HL-93
2. FUTURE PAVEMENT	dp: 3.0 INCH
3. CULVERT OPENING	D: 256 SF
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ: ---
5. PRESTRESSING STRAND	fy: ---
6. PRESTRESSED CONCRETE STRENGTH	f'c: ---
7. PRESTRESSED CONCRETE RELEASE STRENGTH	f'cl: ---
8. CONCRETE, HIGH PERFORMANCE CLASS AA	f'c: 4.0 KSI
9. CONCRETE, HIGH PERFORMANCE CLASS A	f'c: 4.0 KSI
10. CONCRETE, HIGH PERFORMANCE CLASS B	f'c: 3.5 KSI
11. CONCRETE, CLASS C	f'c: 3.0 KSI
12. REINFORCING STEEL	fy: 60 KSI
13. STRUCTURAL STEEL AASHTO M270	fy: ---
14. NOMINAL BEARING RESISTANCE OF SOIL	qn: 4.0 KSF
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	φ: ---
16. NOMINAL BEARING RESISTANCE OF ROCK	qn: 10.0 KSF
17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	φ: ---
18. PILE RESISTANCE FACTOR	φ: ---
19. LATERAL PILE DEFLECTION	Δ: ---
20. BASIC WIND SPEED	V3s: ---
21. MINIMUM GROUND SNOW LOAD	pg: ---
22. SEISMIC DATA	PGA: --- Ss: --- S1: ---
23.	---
24.	---
25.	---
26.	---

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A STR.	4A STR.	5A SEM
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY							
POSTING							
OPERATING							
COMMENTS:	TABLE TO BE COMPLETED BY CONTRACTOR'S DESIGNER						

CULVERT DESIGN CRITERIA

1. PROPOSED CULVERT IS A PRESTRESS CONCRETE STRUCTURE (32'-0" X 8'-0" X 65'-0" BOX).
2. CULVERT ENDS ARE SKEWED BY AN ANGLE OF VARIES°
3. CULVERT WILL BE SET AT A SLOPE OF 23.16 IN. ON 100 FT.
4. CULVERT WILL NOT REQUIRE FISH PASSAGE ACCOMODATIONS
5. CULVERT CONSTRUCTION MAY REQUIRE A TEMPORARY PIPE

TRAFFIC DATA

AS BUILT "REBAR" DETAIL

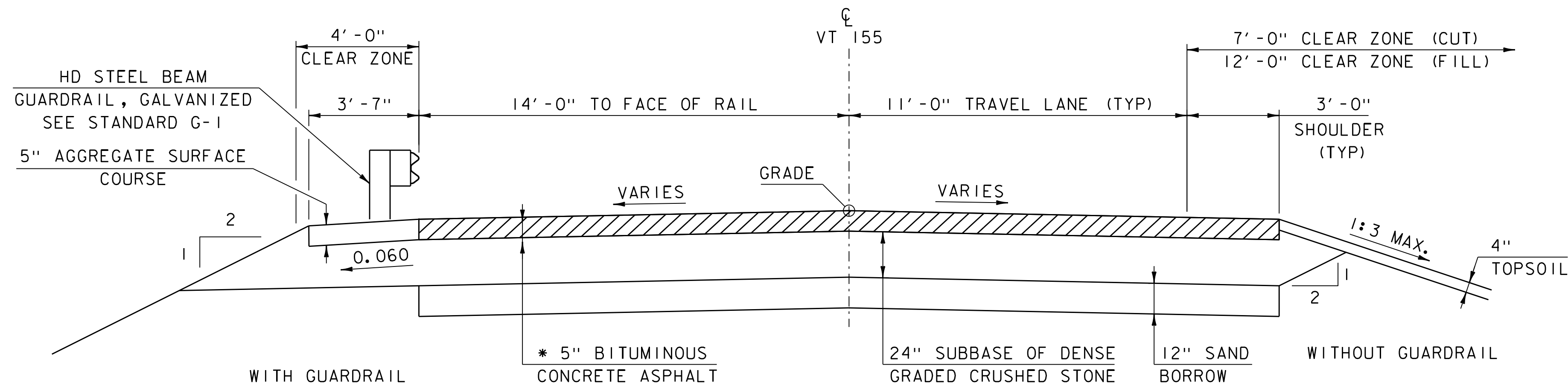
YEAR	ADT	DHV	% D	% T	ADTT	20 year ESAL for flexible pavement from 2018 to 2038 : 113000
2018	570	65	54	2	25	40 year ESAL for flexible pavement from 2018 to 2058 : 254000
2038	580	65	54	3.1	40	Design Speed : 50 mph

LEVEL I			LEVEL II			LEVEL III		
TYPE:			TYPE:			TYPE:		
GRADE:			GRADE:			GRADE:		

PROJECT NAME: **MT. HOLLY**

PROJECT NUMBER: **BF 0133(12)**

FILE NAME: 12c594/s12c594forms.dgn PLOT DATE: 11/02/2018  
 PROJECT LEADER: R.YOUNG DRAWN BY: D.D.BEARD  
 DESIGNED BY: C.COTE CHECKED BY: C.MOONEY  
**PRELIMINARY INFORMATION SHEET** SHEET 2 OF 30



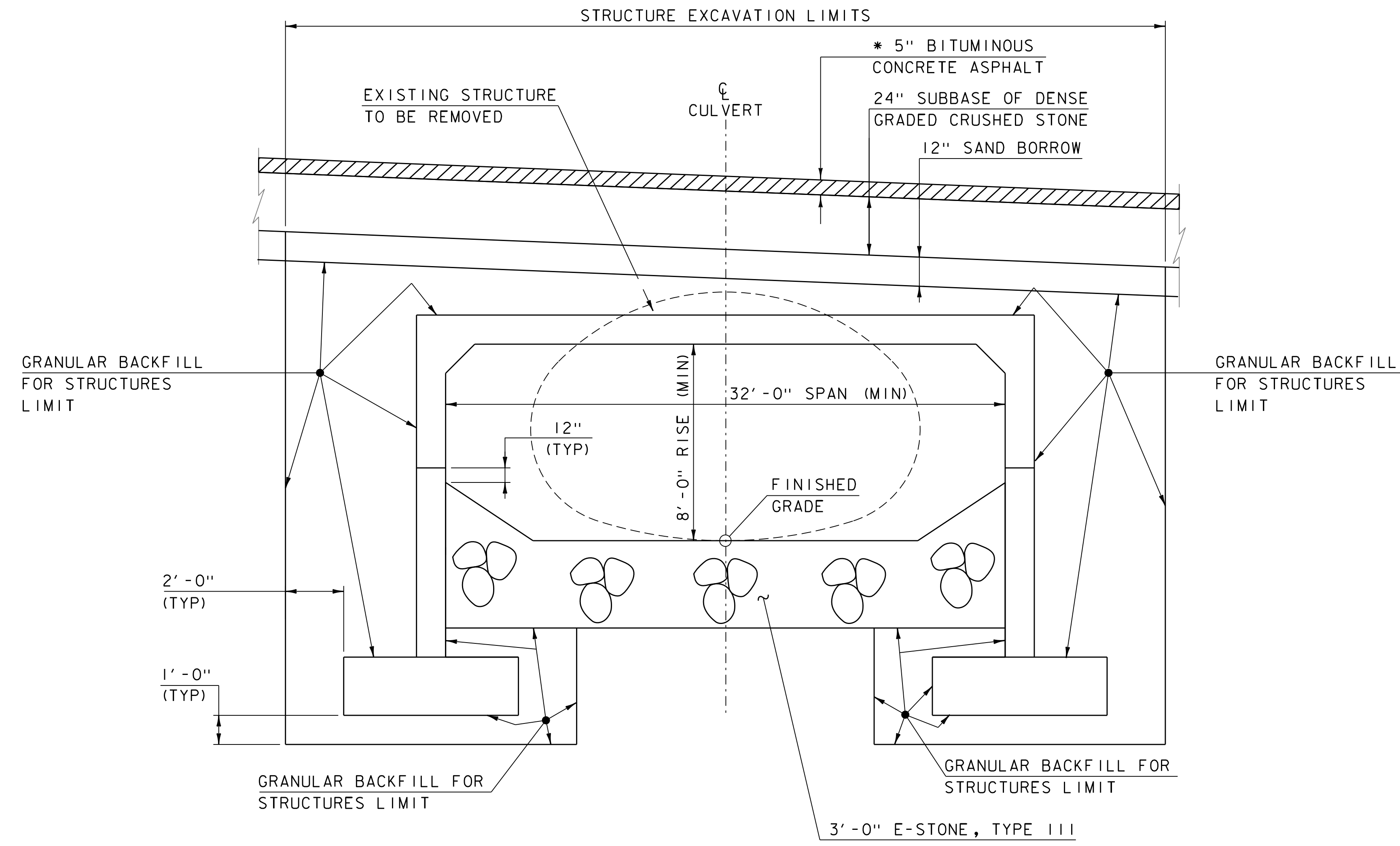
\* BITUMINOUS CONCRETE ASPHALT MATERIAL SECTION

VT-155  
 1 1/2" TYPE 1VS OVER  
 1 1/2" TYPE 1VS OVER  
 2" TYPE 111S

MATERIAL TOLERANCES (IF USED ON PROJECT)	
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	
SAND BORROWS	+/- 1"

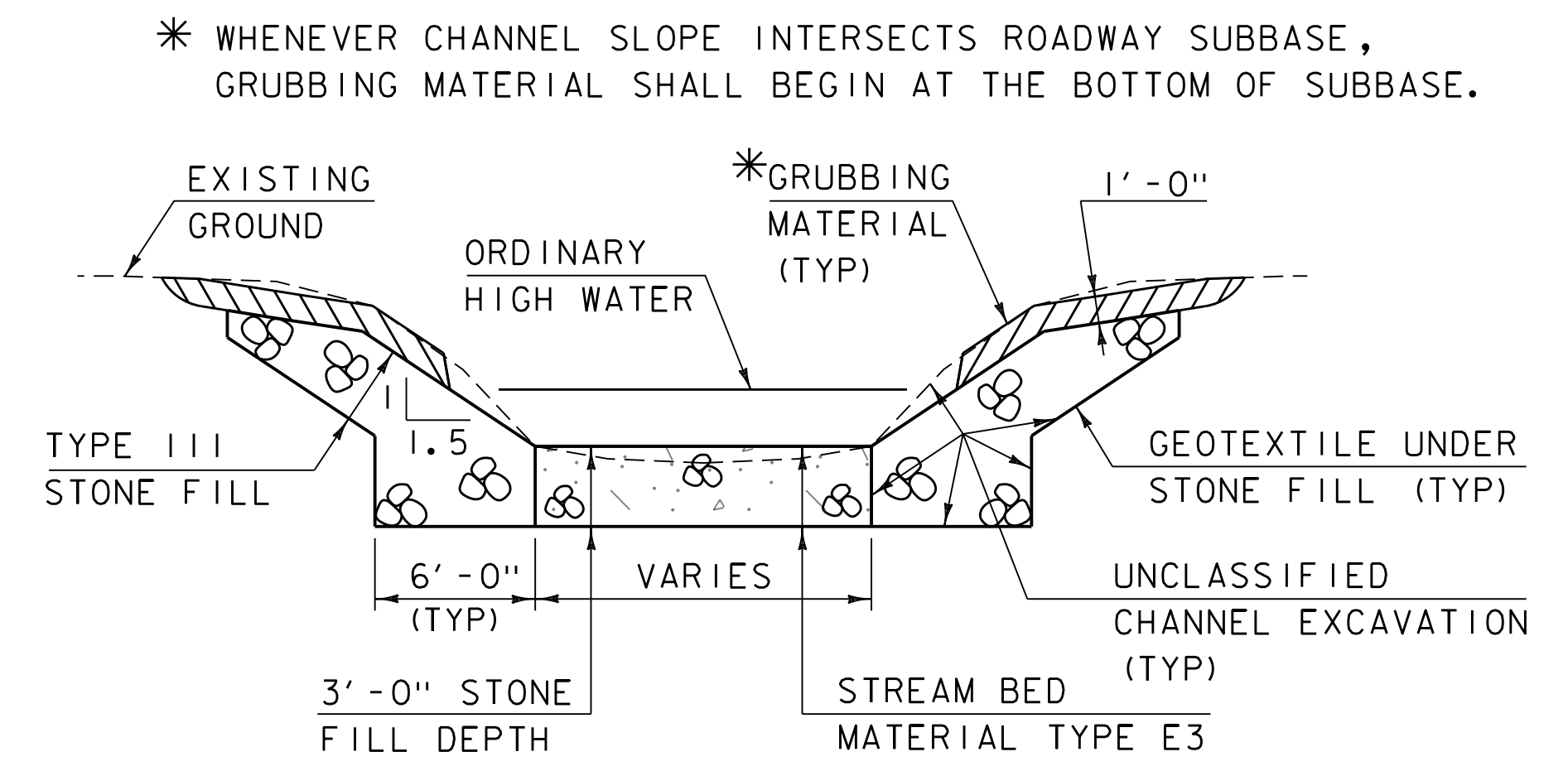
PROPOSED VT 100 TYPICAL SECTION

SCALE 3/8" = 1'-0"



PROPOSED TYPICAL SECTION

NOT TO SCALE



CHANNEL TYPICAL SECTION

NOT TO SCALE

PROJECT NAME: MT. HOLLY	PLOT DATE: 09-NOV-2018
PROJECT NUMBER: BF 0133(12)	DRAWN BY: D.D.BEARD
FILE NAME: sl2b5941yp.dgn	CHECKED BY: C.MOONEY
PROJECT LEADER: R.YOUNG	SHEET 3 OF 25
DESIGNED BY: C.COTE	
TYPICAL SECTIONS	

**GENERAL INFORMATION**

**SYMBOLY LEGEND NOTE**

THE SYMBOLY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLY. THE SYMBOLY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

**R.O.W. ABBREVIATIONS (CODES) & SYMBOLS**

POINT CODE	DESCRIPTION
CH	CHANNEL EASEMENT
CONST	CONSTRUCTION EASEMENT
CUL	CULVERT EASEMENT
D&C	DISCONNECT & CONNECT
DIT	DITCH EASEMENT
DR	DRAINAGE EASEMENT
DRIVE	DRIVEWAY EASEMENT
EC	EROSION CONTROL
HWY	HIGHWAY EASEMENT
I&M	INSTALL & MAINTAIN EASEMENT
LAND	LANDSCAPE EASEMENT
R&RES	REMOVE & RESET
R&REP	REMOVE & REPLACE
R.T.& I.	RIGHT, TITLE, AND INTEREST
SR	SLOPE RIGHT
UE	UTILITY EASEMENT
(P)	PERMANENT EASEMENT
(T)	TEMPORARY EASEMENT
■	BNDNS BOUND SET
▣	BNDNS BOUND TO BE SET
⊙	IPNF IRON PIN FOUND
●	IPNS IRON PIN TO BE SET
⊠	CALC EXISTING ROW POINT
○	PROW PROPOSED ROW POINT
[LENGTH]	LENGTH CARRIED ON NEXT SHEET

**COMMON TOPOGRAPHIC POINT SYMBOLS**

POINT CODE	DESCRIPTION
⊕	APL BOUND APPARENT LOCATION
◻	BM BENCHMARK
▣	BND BOUND
⊠	CB CATCH BASIN
⊕	COMB COMBINATION POLE
⊠	DITHR DROP INLET THROATED DNC
⊕	EL ELECTRIC POWER POLE
◦	FPOLE FLAGPOLE
⊙	GASFIL GAS FILLER
⊙	GP GUIDE POST
⊙	GSO GAS SHUT OFF
◦	GUY GUY POLE
◦	GUYW GUY WIRE
⊕	GV GATE VALVE
⊕	H TREE HARDWOOD
△	HCTRL CONTROL HORIZONTAL
△	HVCTRL CONTROL HORIZ. & VERTICAL
◇	HYD HYDRANT
◦	IP IRON PIN
◦	IPIPE IRON PIPE
⊕	LI LIGHT - STREET OR YARD
⊕	MB MAILBOX
◦	MH MANHOLE (MH)
▣	MM MILE MARKER
◦	PM PARKING METER
▣	PMK PROJECT MARKER
◦	POST POST STONE/WOOD
⊕	RRSIG RAILROAD SIGNAL
⊕	RRSL RAILROAD SWITCH LEVER
⊕	S TREE SOFTWOOD
⊕	SAT SATELLITE DISH
⊕	SHRUB SHRUB
⊕	SIGN SIGN
⊕	STUMP STUMP
⊕	TEL TELEPHONE POLE
◦	TIE TIE
⊕	TSIGN SIGN W/DOUBLE POST
⊕	VCTRL CONTROL VERTICAL
◦	WELL WELL
⊕	WSO WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

**PROPOSED GEOMETRY CODES**

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE
CB	CHORD BEARING

**UTILITY SYMBOLY**

UNDERGROUND UTILITIES	
— UGU —	UTILITY (GENERIC-UNKNOWN)
— UT —	TELEPHONE
— UE —	ELECTRIC
— UC —	CABLE (TV)
— UEC —	ELECTRIC+CABLE
— UET —	ELECTRIC+TELEPHONE
— UCT —	CABLE+TELEPHONE
— UECT —	ELECTRIC+CABLE+TELEPHONE
— G —	GAS LINE
— W —	WATER LINE
— S —	SANITARY SEWER (SEPTIC)

**ABOVE GROUND UTILITIES (AERIAL)**

— AGU —	UTILITY (GENERIC-UNKNOWN)
— T —	TELEPHONE
— E —	ELECTRIC
— C —	CABLE (TV)
— EC —	ELECTRIC+CABLE
— ET —	ELECTRIC+TELEPHONE
— AER E&T —	ELECTRIC+TELEPHONE
— CT —	CABLE+TELEPHONE
— ECT —	ELECTRIC+CABLE+TELEPHONE
—	UTILITY POLE GUY WIRE

**PROJECT CONSTRUCTION SYMBOLY**

— — — CZ — — —	CLEAR ZONE
—————	PLAN LAYOUT MATCHLINE

**PROJECT CONSTRUCTION FEATURES**

▲ —▲—▲—▲—▲	TOP OF CUT SLOPE
○ —○—○—○—○	TOE OF FILL SLOPE
⊗ ⊗ ⊗ ⊗ ⊗ ⊗	STONE FILL
-----	BOTTOM OF DITCH
-----	CULVERT PROPOSED
-----	STRUCTURE SUBSURFACE
PDF ——— PDF ———	PROJECT DEMARCATION FENCE
BF * * * * BF * * * *	BARRIER FENCE
XXXXXXXXXXXXXXXXXXXX	TREE PROTECTION ZONE (TPZ)
//////	STRIPING LINE REMOVAL
~~~~~	SHEET PILES

**CONVENTIONAL BOUNDARY SYMBOLY**

BOUNDARY LINES	
—————	TOWN BOUNDARY LINE
—————	COUNTY BOUNDARY LINE
—————	STATE BOUNDARY LINE
———	PROPOSED STATE R.O.W. (LIMITED ACCESS)
———	PROPOSED STATE R.O.W.
———	STATE ROW (LIMITED ACCESS)
———	STATE ROW
———	TOWN ROW
-----	PERMANENT EASEMENT LINE (P)
-----	TEMPORARY EASEMENT LINE (T)
-----	SURVEY LINE
— P — P —	PROPERTY LINE (P/L)
— L — L —	PROPERTY LINE (P/L)
▲ SR ○ SR ▲ SR ○	SLOPE RIGHTS
6f ——— 6f ———	6F PROPERTY BOUNDARY
4f ——— 4f ———	4F PROPERTY BOUNDARY
HAZ ——— HAZ ———	HAZARDOUS WASTE

**EPSC LAYOUT PLAN SYMBOLY**

EPSC MEASURES	
○●○○○○○●○	FILTER CURTAIN
— — — — —	SILT FENCE
— X — X — X —	SILT FENCE WOVEN WIRE
— — — — —	CHECK DAM
▣	DISTURBED AREAS REQUIRING RE-VEGETATION
⊠	EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLY

**ENVIRONMENTAL RESOURCES**

———	WETLAND BOUNDARY
-----	RIPARIAN BUFFER ZONE
-----	WETLAND BUFFER ZONE
-----	SOIL TYPE BOUNDARY
— T&E —	THREATENED & ENDANGERED SPECIES
HAZ ——— HAZ ———	HAZARDOUS WASTE AREA
——— AG ———	AGRICULTURAL LAND
——— HABITAT ———	FISH & WILDLIFE HABITAT
——— FLOOD PLAIN ———	FLOOD PLAIN
— OHW —	ORDINARY HIGH WATER (OHW)
— — — — —	STORM WATER
———	USDA FOREST SERVICE LANDS
———	WILDLIFE HABITAT SUIT/CONN

**ARCHEOLOGICAL & HISTORIC**

——— ARCH ———	ARCHEOLOGICAL BOUNDARY
——— HISTORIC DIST ———	HISTORIC DISTRICT BOUNDARY
——— HISTORIC ———	HISTORIC AREA
Ⓜ	HISTORIC STRUCTURE

**CONVENTIONAL TOPOGRAPHIC SYMBOLY**

EXISTING FEATURES	
-----	ROAD EDGE PAVEMENT
-----	ROAD EDGE GRAVEL
-----	DRIVEWAY EDGE
-----	DITCH
-----	FOUNDATION
x — x — x — x — x — x —	FENCE (EXISTING)
□ — □ — □ — □ — □ — □ —	FENCE WOOD POST
○ — ○ — ○ — ○ — ○ — ○ —	FENCE STEEL POST
~~~~~	GARDEN
———	ROAD GUARDRAIL
	RAILROAD TRACKS
-----	CULVERT (EXISTING)
○○○○○○○○○○○○○○○○	STONE WALL
-----	WALL
~~~~~	WOOD LINE
~~~~~	BRUSH LINE
~~~~~	HEDGE
-----	BODY OF WATER EDGE
~~~~~	LEDGE EXPOSED

PROJECT NAME: MT. HOLLY  
 PROJECT NUMBER: BF 0133(12)  
 FILE NAME: sl2c594forms.dgn PLOT DATE: 09-NOV-2018  
 PROJECT LEADER: R.YOUNG DRAWN BY: M.LONGSTREET  
 DESIGNED BY: C.COTE CHECKED BY: C.MOONEY  
 SYMBOLY LEGEND SHEET 4 OF 25

CONTROL POINTS

                     HVCTRL #1                     

SANDY  
 NORTH = 325689.4990  
 EAST = 1555757.1140  
 ELEV. = 1733.1650

GENERAL LOCATION, MOUNT HOLLY, VT.

TO REACH FROM THE INTERSECTION OF VT ROUTE 155 AND VT ROUTE 140 IN EAST WALLINGFORD, GO SOUTHEAST ALONG VT ROUTE 155 FOR 5.1 MI (8.2 KM) TO THE INTERSECTION OF DANA LANE (PRIVATE) RIGHT AND THE SITE OF THE MARK ON THE RIGHT.

THE MARK IS SET 35 CM (14 INCHES) BELOW GROUND SURFACE IN THE TOP OF A 30 CM (12 INCH) DIAMETER CONCRETE MONUMENT. IT IS 11.0 M (36.1 FT) SOUTHWEST OF AND 1.0 M (3.3 FT) LOWER THAN THE CENTERLINE OF VT ROUTE 155, 9.5 M (31.2 FT) SOUTHEAST OF THE CENTERLINE OF DANA LANE, 4.3 M (14.1 FT) NORTHEAST OF POLE NO 1/106-4/2-4-9-29, 37.9 M (124.3 FT) NORTHEAST OF THE EAST CORNER OF HOUSE NO 44, 14.9 M (48.9 FT) SOUTHEAST OF THE MOST SOUTHEASTERLY WOODEN POST IN A ROW AND 0.3 M (1.0 FT) NORTHEAST OF A FIBERGLASS WITNESS POST.

                     HVCTRL #2                     

SANDY AZ MK  
 NORTH = 326774.3220  
 EAST = 1554102.2470  
 ELEV. = 1692.9590

GENERAL LOCATION, MOUNT HOLLY, VT.

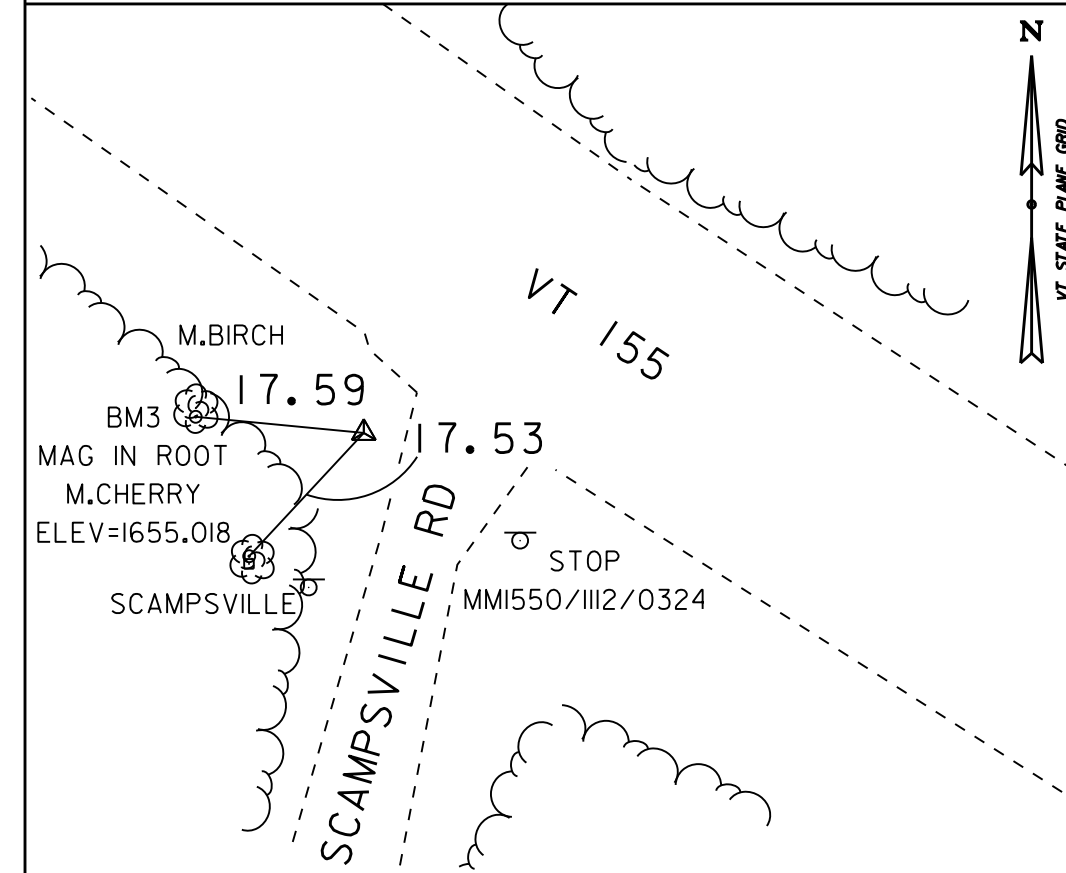
TO REACH FROM THE INTERSECTION OF VT ROUTE 155 AND VT ROUTE 140 IN EAST WALLINGFORD, GO SOUTHEAST ALONG VT ROUTE 155 FOR 4.7 MI (7.6 KM) TO THE SITE OF THE MARK ON THE RIGHT, ABOUT 0.1 MI (0.2 KM) NORTHWEST OF MAPLE HILL ROAD.

THE MARK IS SET 10 CM (4 INCHES) BELOW GROUND SURFACE IN THE TOP OF A FENO STYLE MONUMENT. IT IS 12.1 M (39.7 FT) SOUTHWEST OF AND LEVEL WITH THE CENTERLINE OF VT ROUTE 155, 24.0 M (78.7 FT) EAST OF AND ACROSS THE ROAD FROM THE CENTER OF THE NORTHWEST (OUTLET) END OF A 45 CM (18 INCH) METAL DRIVE CULVERT, 50.2 M (164.7 FT) SOUTHEAST OF AND ACROSS THE ROAD FROM THE SOUTHWEST END OF A GATED GRAVEL DRIVE AND 72.9 M (239.2 FT) NORTHWEST OF THE CENTER OF THE SOUTHWEST (INLET) END OF A 30 CM (12 INCH) DIAMETER CONCRETE CULVERT WITH HEADWALL AND STEEL MARKER POST.

TRAVERSE TIES

                     HVCTRL 3                     

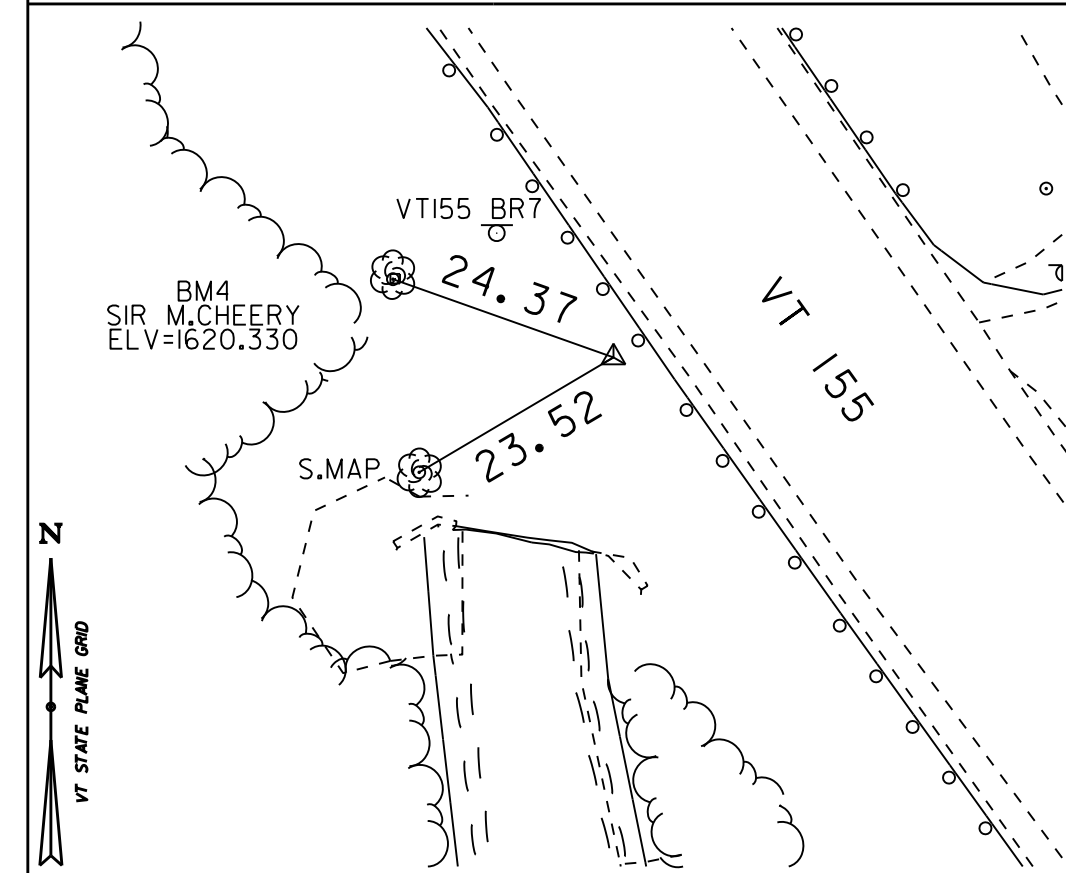
NORTH = 327238.4798  
 EAST = 1553331.7014  
 ELEV. = 1654.0320



TRAVERSE COMPLETED BY H. MCGOWAN P.C. & T. CATTANEO ON 12/18/2015

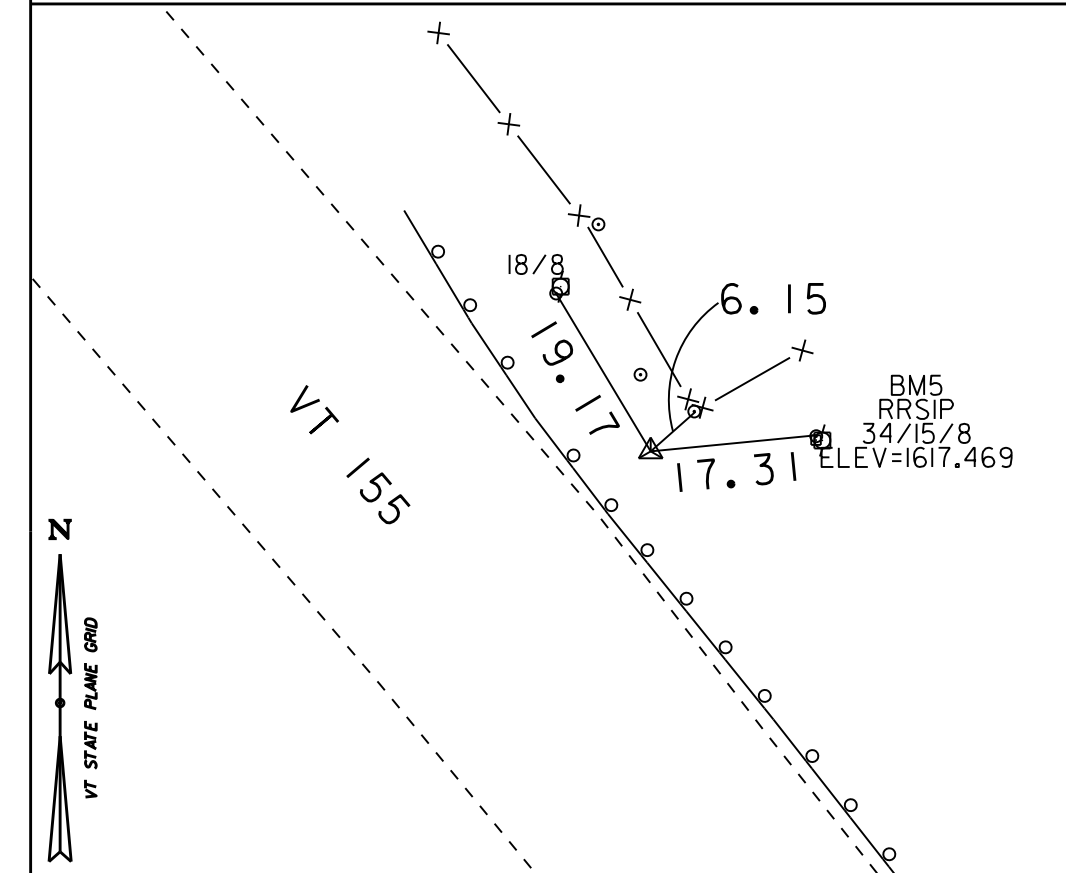
                     HVCTRL 4                     

NORTH = 327825.9086  
 EAST = 1552756.7522  
 ELEV. = 1620.1930



                     HVCTRL 5                     

NORTH = 328402.1807  
 EAST = 1552415.1462  
 ELEV. = 1617.9770



NORTH = \_\_\_\_\_

EAST = \_\_\_\_\_

ELEV. = \_\_\_\_\_

NORTH = \_\_\_\_\_

EAST = \_\_\_\_\_

ELEV. = \_\_\_\_\_

ALIGNMENT TIES

NORTH = \_\_\_\_\_

EAST = \_\_\_\_\_

ELEV. = \_\_\_\_\_

NORTH = \_\_\_\_\_

EAST = \_\_\_\_\_

ELEV. = \_\_\_\_\_

NORTH = \_\_\_\_\_

EAST = \_\_\_\_\_

ELEV. = \_\_\_\_\_

NORTH = \_\_\_\_\_

EAST = \_\_\_\_\_

ELEV. = \_\_\_\_\_

NORTH = \_\_\_\_\_

EAST = \_\_\_\_\_

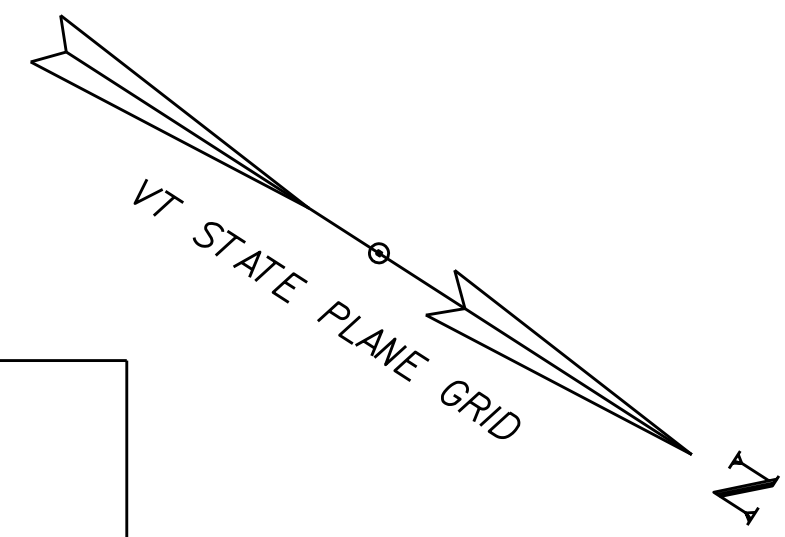
ELEV. = \_\_\_\_\_

DATUM  
 VERTICAL        NAVD 88         
 HORIZONTAL        NAD 83 (2011)         
 ADJUSTMENT        COMPASS       

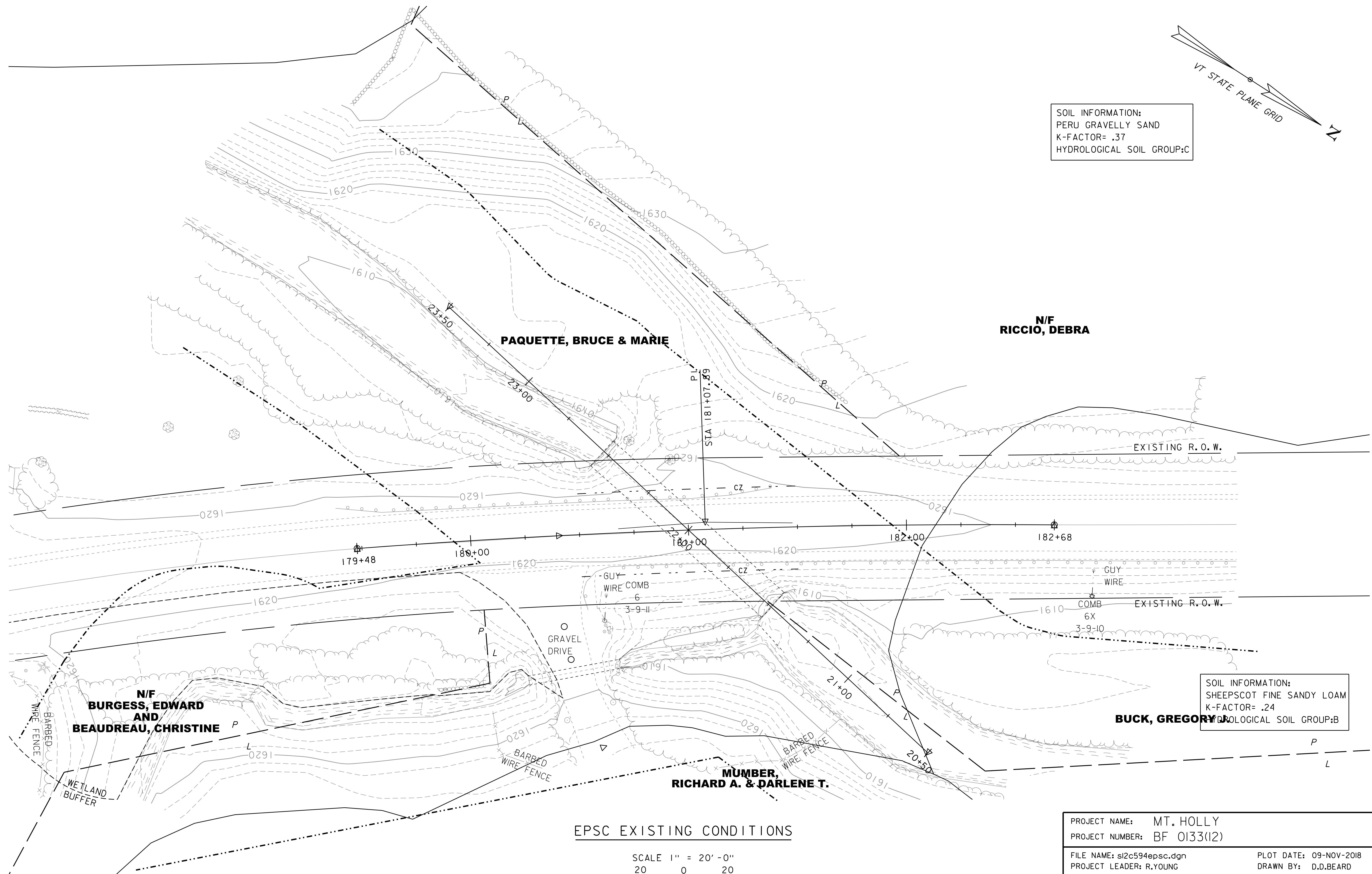
PROJECT NAME: MT HOLLY  
 PROJECT NUMBER: BF 0133(12)  
 FILE NAME: sl2b5941e.dgn  
 PROJECT LEADER: R.YOUNG  
 DESIGNED BY: H. MCGOWAN  
 TIE SHEET

PLOT DATE: 09-NOV-2018  
 DRAWN BY: H. MCGOWAN  
 CHECKED BY: C.MOONEY  
 SHEET 5 OF 25

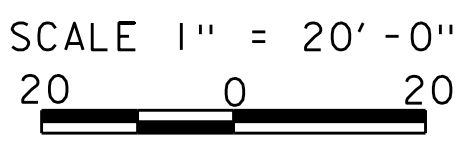




SOIL INFORMATION:  
 PERU GRAVELLY SAND  
 K-FACTOR= .37  
 HYDROLOGICAL SOIL GROUP:C



EPSC EXISTING CONDITIONS



SOIL INFORMATION:  
 SHEEPSCOT FINE SANDY LOAM  
 K-FACTOR= .24  
 HYDROLOGICAL SOIL GROUP:B

PROJECT NAME:	MT. HOLLY	PLLOT DATE:	09-NOV-2018
PROJECT NUMBER:	BF 0133(12)	DRAWN BY:	D.D.BEARD
FILE NAME:	sl2c594epsc.dgn	DESIGNED BY:	C.COTE
DESIGNED BY:	C.COTE	CHECKED BY:	C.MOONEY
EPSC EXISTING CONDITIONS		SHEET	6 OF 25



COLD PLANE  
 STA 179+50 - 180+00  
 STA 182+00 - 182+50

REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA 179+38 LT - 181+38 LT  
 STA 180+50 RT - 182+50 RT

REMOVING SIGNS  
 STA 180+54 RT (I)  
 STA 180+64 RT (I)  
 STA 180+89 LT (I)  
 STA 181+12 RT (I)

CONSTRUCT DRIVE  
 STA 179+86 RT - 180+67 RT  
  
 4" YELLOW LINE (DOUBLE)  
 STA 179+48 - 182+50

MANUFACTURED TERMINAL SECTION  
 (FOR HDSB GUARDRAIL)  
 STA 181+75 - 181+25 LT

TRAFFIC SIGN, TYPE A  
 STA 180+54 RT (I)  
 STA 180+64 RT (I)  
 STA 180+89 LT (I)  
 STA 181+12 RT (I)

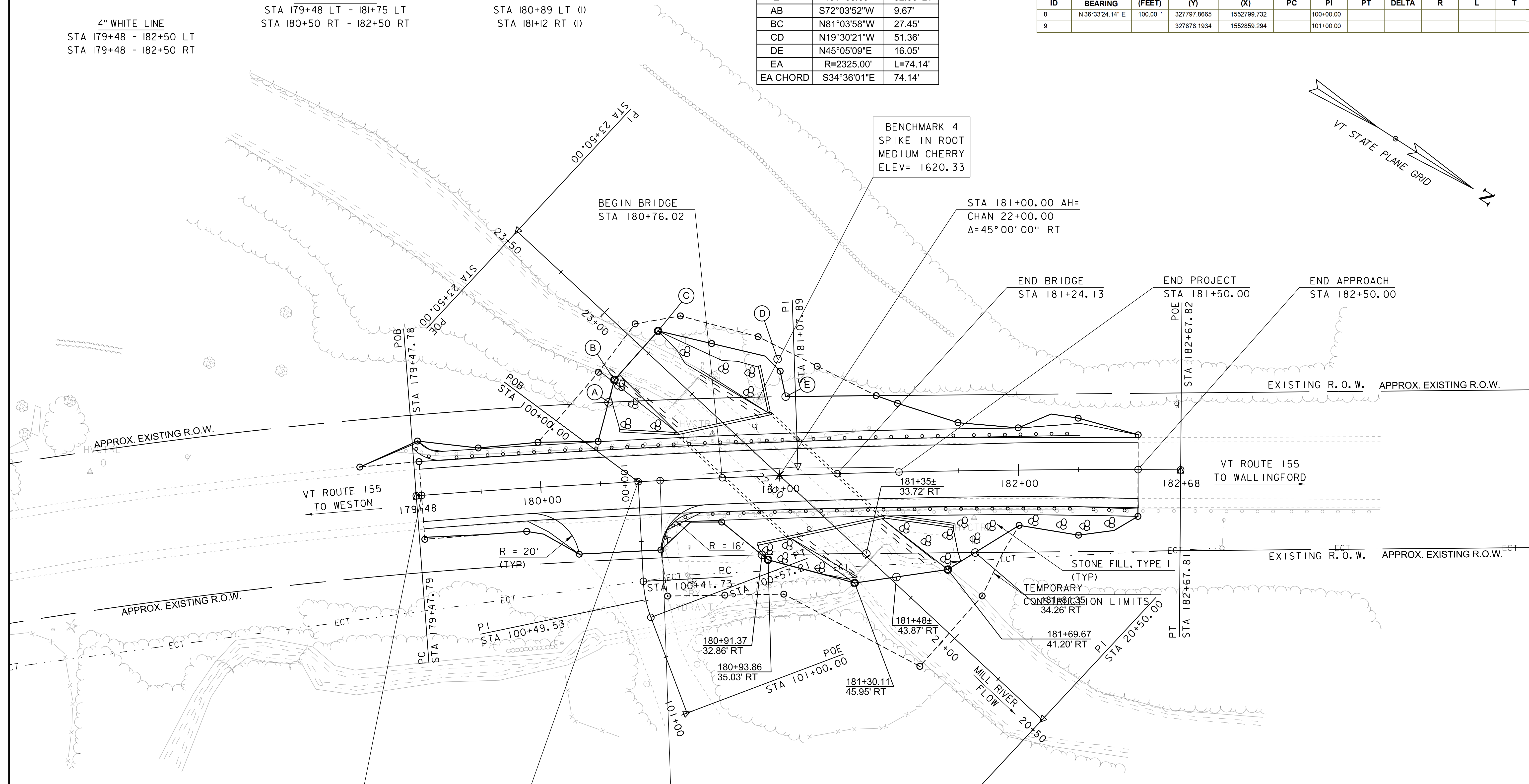
4" WHITE LINE  
 STA 179+48 - 182+50 LT  
 STA 179+48 - 182+50 RT

HDSB GUARDRAIL  
 STA 179+48 LT - 181+75 LT  
 STA 180+50 RT - 182+50 RT

PROPOSED R.O.W. - PARCEL 1		
A	180+30.20	33.86' LT
B	180+33.14	43.07' LT
C	180+52.16	62.60' LT
D	181+00.90	48.73' LT
E	181+03.69	32.93' LT
AB	S72°03'52"W	9.67'
BC	N81°03'58"W	27.45'
CD	N19°30'21"W	51.36'
DE	N45°05'09"E	16.05'
EA	R=2325.00'	L=74.14'
EA CHORD	S34°36'01"E	74.14'

CONTROL LINE DATA - VT155_Proposed											
POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
1	N 37°05'31.97" W	0.01'	327735.8073	1552845.683		179+47.78					
	N 32°19'47.02" W	160.12'	327863.5247	1552749.118	179+47.79		182+67.81	4°45'44.93"	3850.00'	320.02'	160.10'
3			327998.8202	1552663.49		182+67.82					

CONTROL LINE DATA - Driveway 1											
POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
8	N 36°33'24.14" E	100.00'	327797.8665	1552799.732		100+00.00					
9			327878.1934	1552859.294		101+00.00					



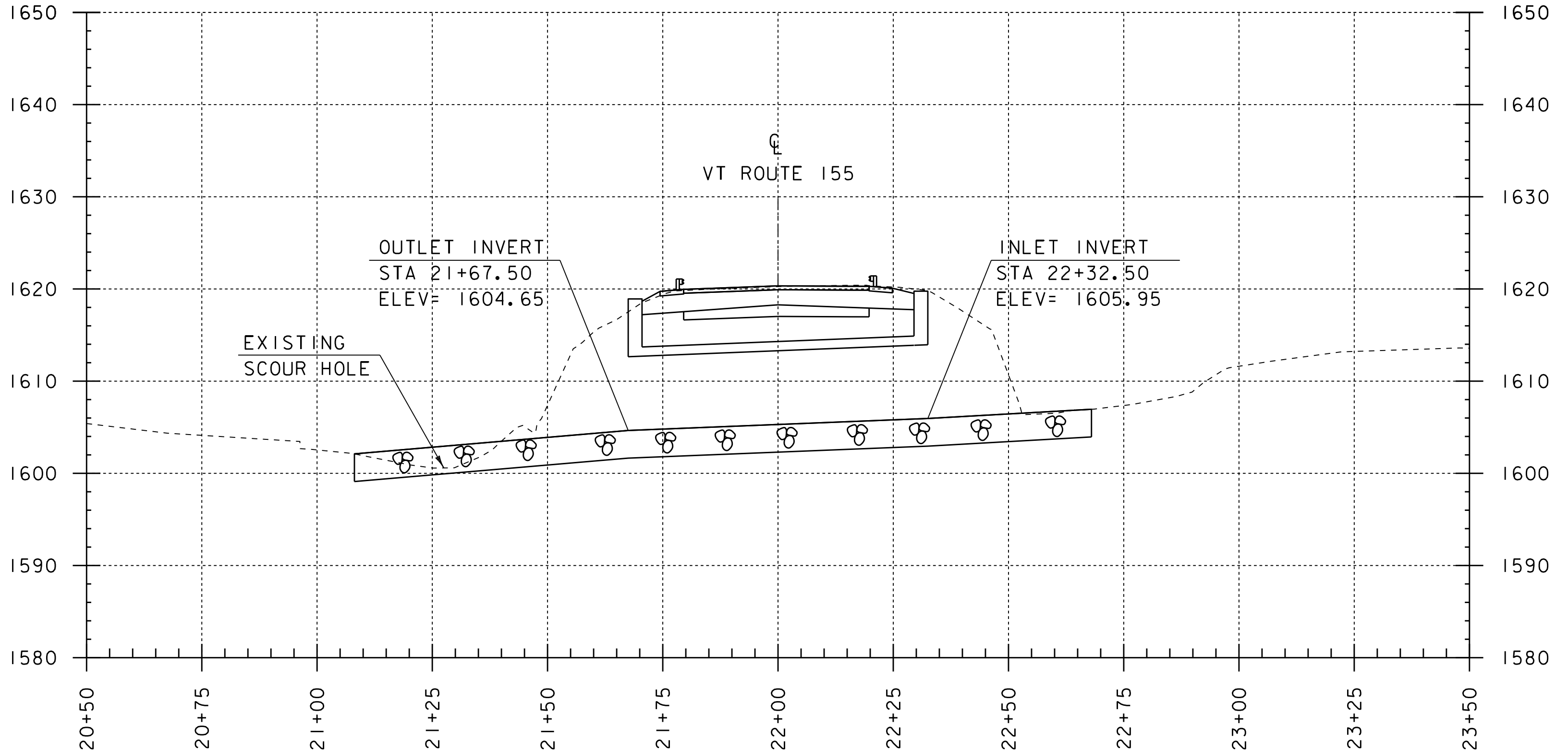
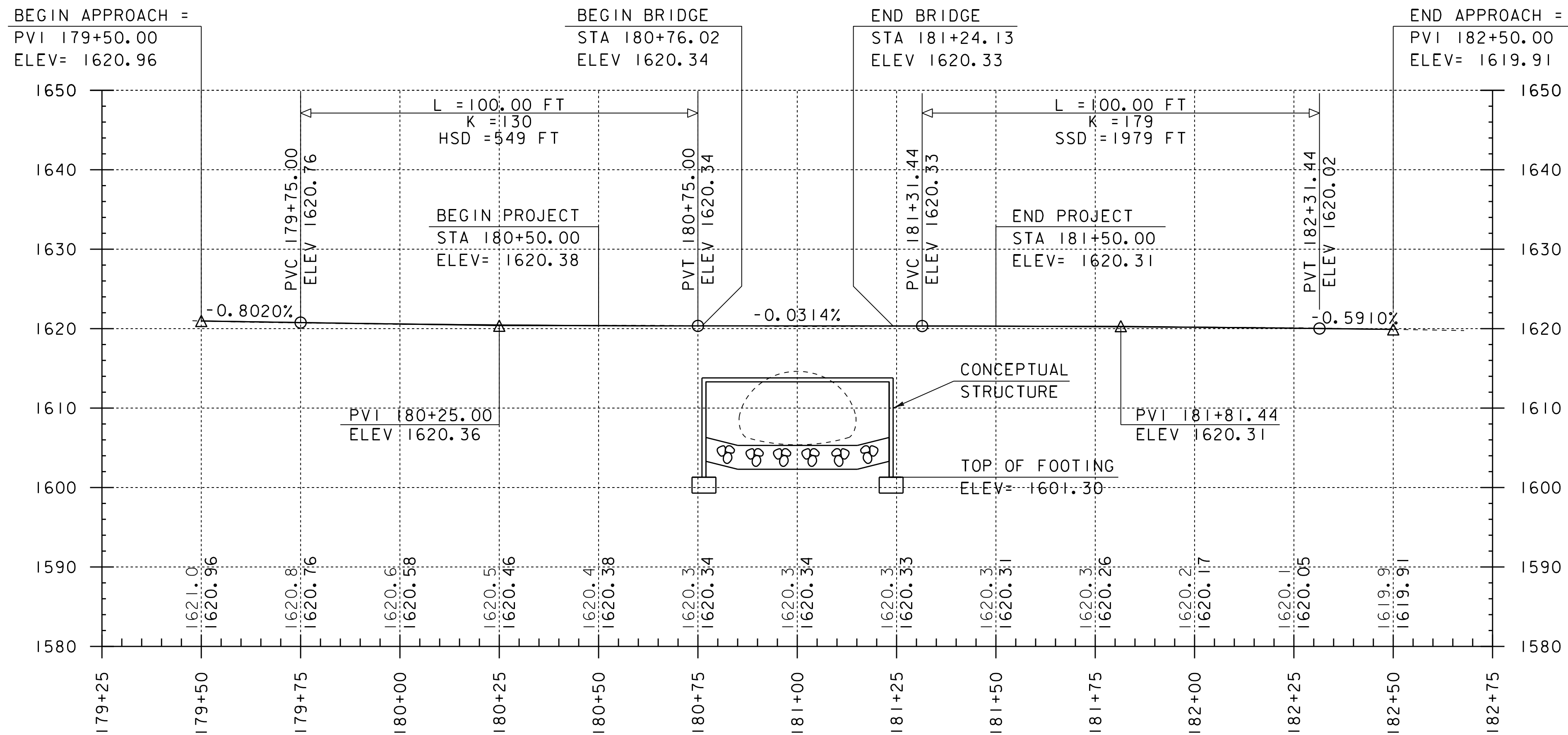
EXISTING BRIDGE DATA  
 15' - 4" X 9' - 3" CGMPA  
 104' LONG, BUILT 1969  
 109 SQ FT WATERWAY AREA  
 6 FT AVERAGE COVER

BEGIN APPROACH STA 179+50.00  
 STA 180+40.83 = POB 100+00.00  
 $\Delta = 90^\circ 00' 00''$  RT  
 BEGIN PROJECT STA 180+50.00

LAYOUT PLAN

SCALE 1" = 20' - 0"  
 20 0 20

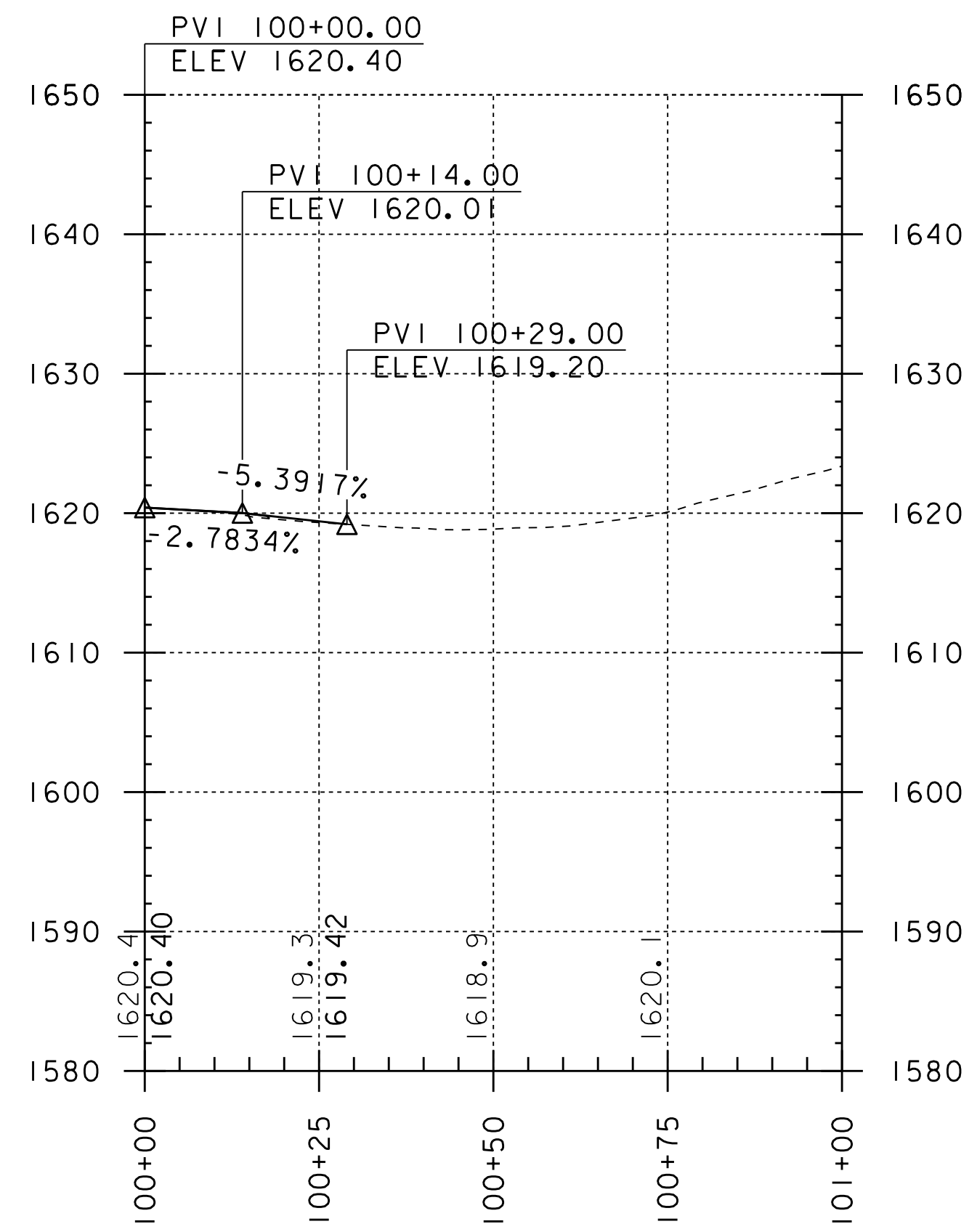
PROJECT NAME: MT. HOLLY  
 PROJECT NUMBER: BF 0133(12)  
 FILE NAME: sl2c594border.dgn  
 PROJECT LEADER: R.YOUNG  
 DESIGNED BY: C.COTE  
 LAYOUT PLAN  
 PLOT DATE: 09-NOV-2018  
 DRAWN BY: D.D.BEARD  
 CHECKED BY: C.MOONEY  
 SHEET 7 OF 25



NOTE:  
 GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG CL  
 GRADES SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADE ALONG CL

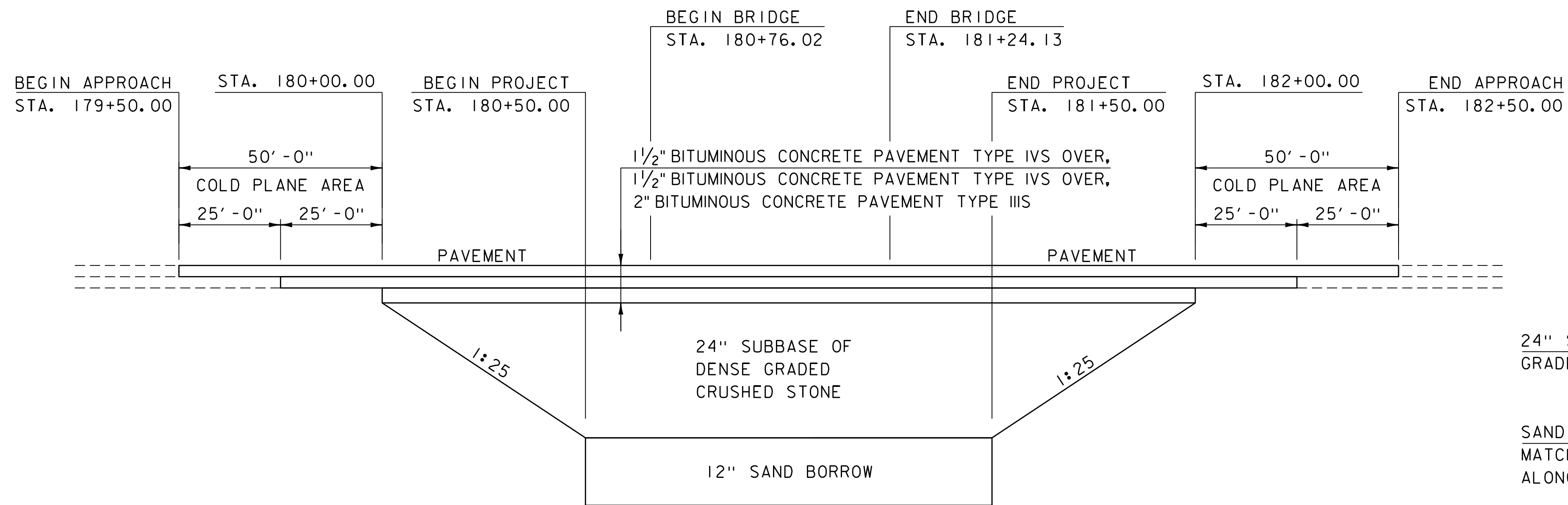
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PROJECT NUMBER:	BF 0133(12)
FILE NAME:	sl2c594pro.dgn
PROJECT LEADER:	R.YOUNG
DESIGNED BY:	C.COTE
PROFILE SHEET I	
PLOT DATE:	09-NOV-2018
DRAWN BY:	C.COTE
CHECKED BY:	C.MOONEY
SHEET	8 OF 25



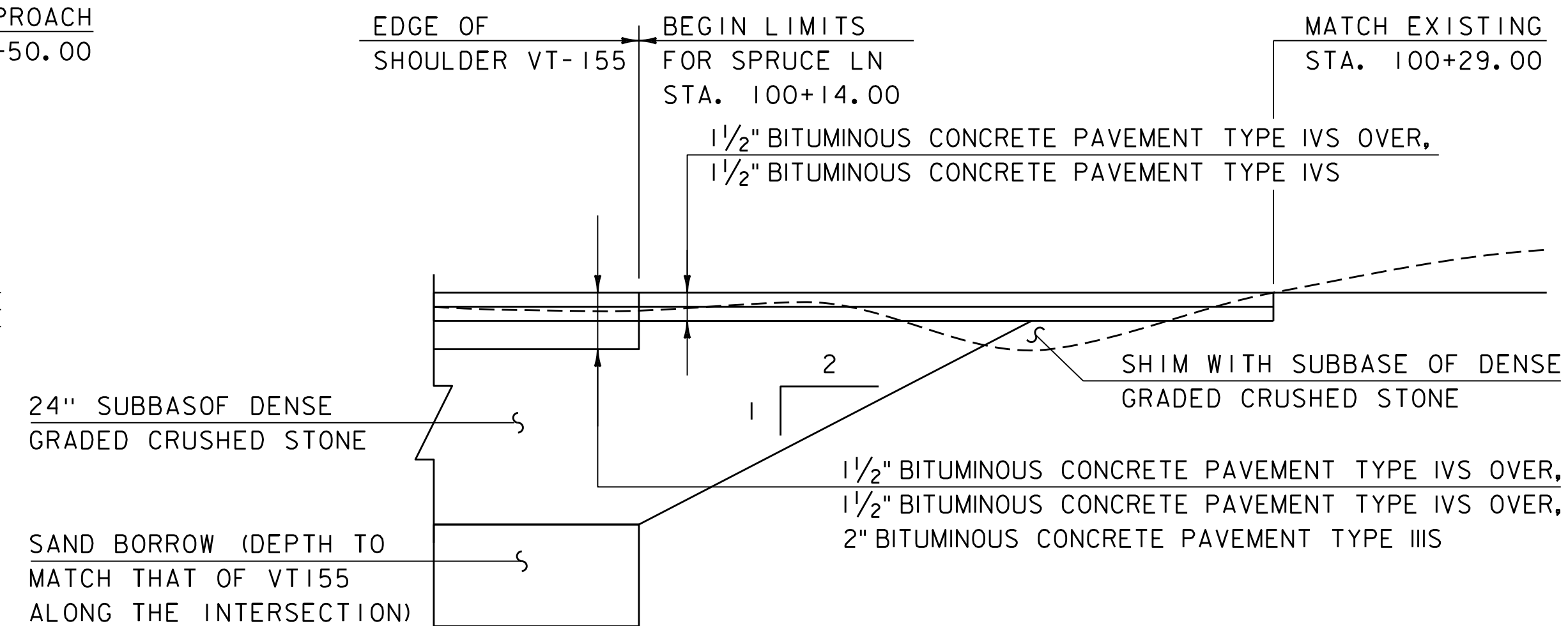


NOTE:  
 GRADES SHOWN TO THE NEAREST  
 TENTH ARE EXISTING GROUND ALONG  $\mathcal{C}$   
 GRADES SHOWN TO THE NEAREST  
 HUNDREDTH ARE FINISH GRADE ALONG  $\mathcal{C}$

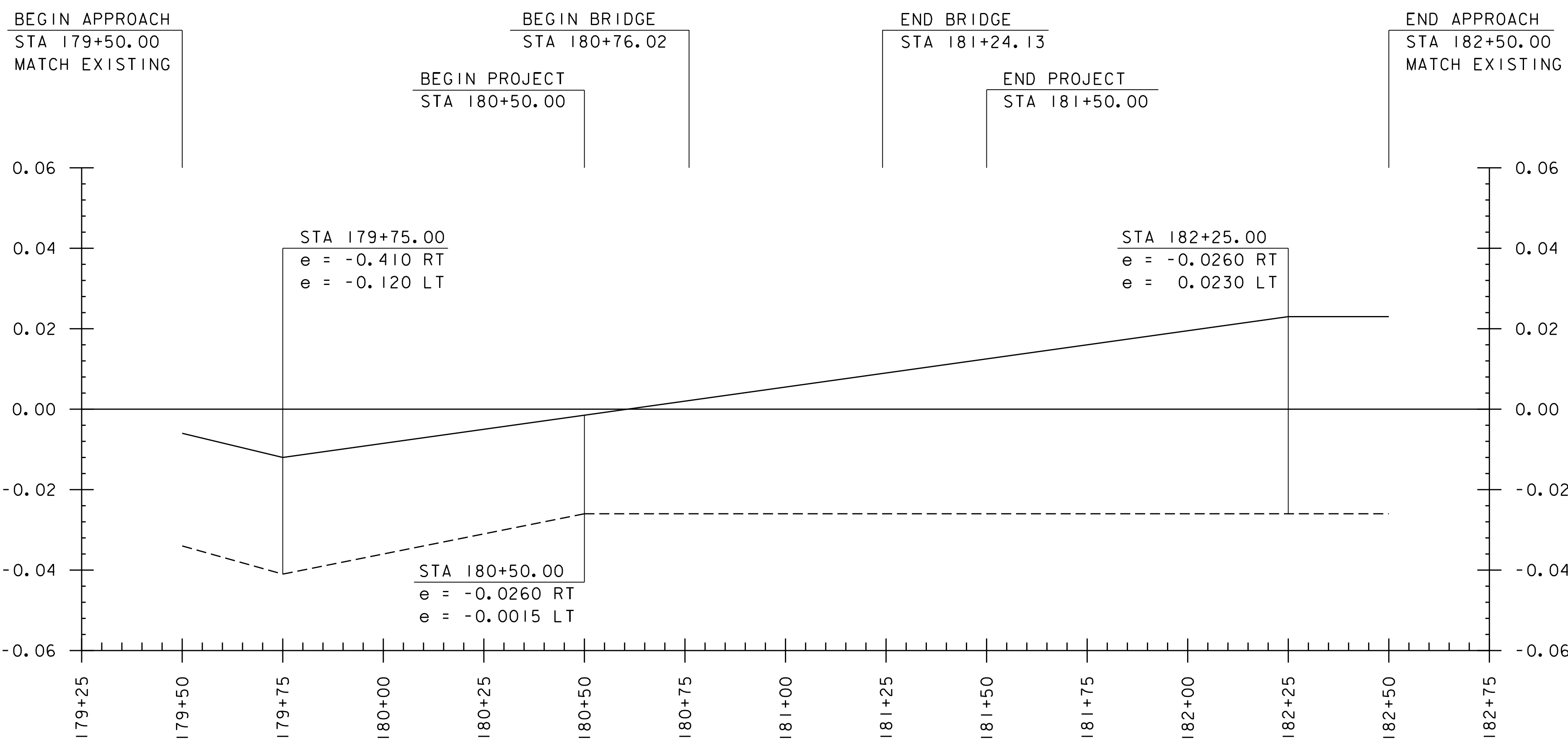
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PROJECT NUMBER:	BF 0133(12)
FILE NAME:	sl2c594pro.dgn
PROJECT LEADER:	R.YOUNG
DESIGNED BY:	C.COTE
PROFILE SHEET 2	
PLOT DATE:	09-NOV-2018
DRAWN BY:	C.COTE
CHECKED BY:	C.MOONEY
SHEET	9 OF 25



VT 155 MATERIAL TRANSITION  
NOT TO SCALE



SPRUCE LANE MATERIAL TRANSITION  
NOT TO SCALE

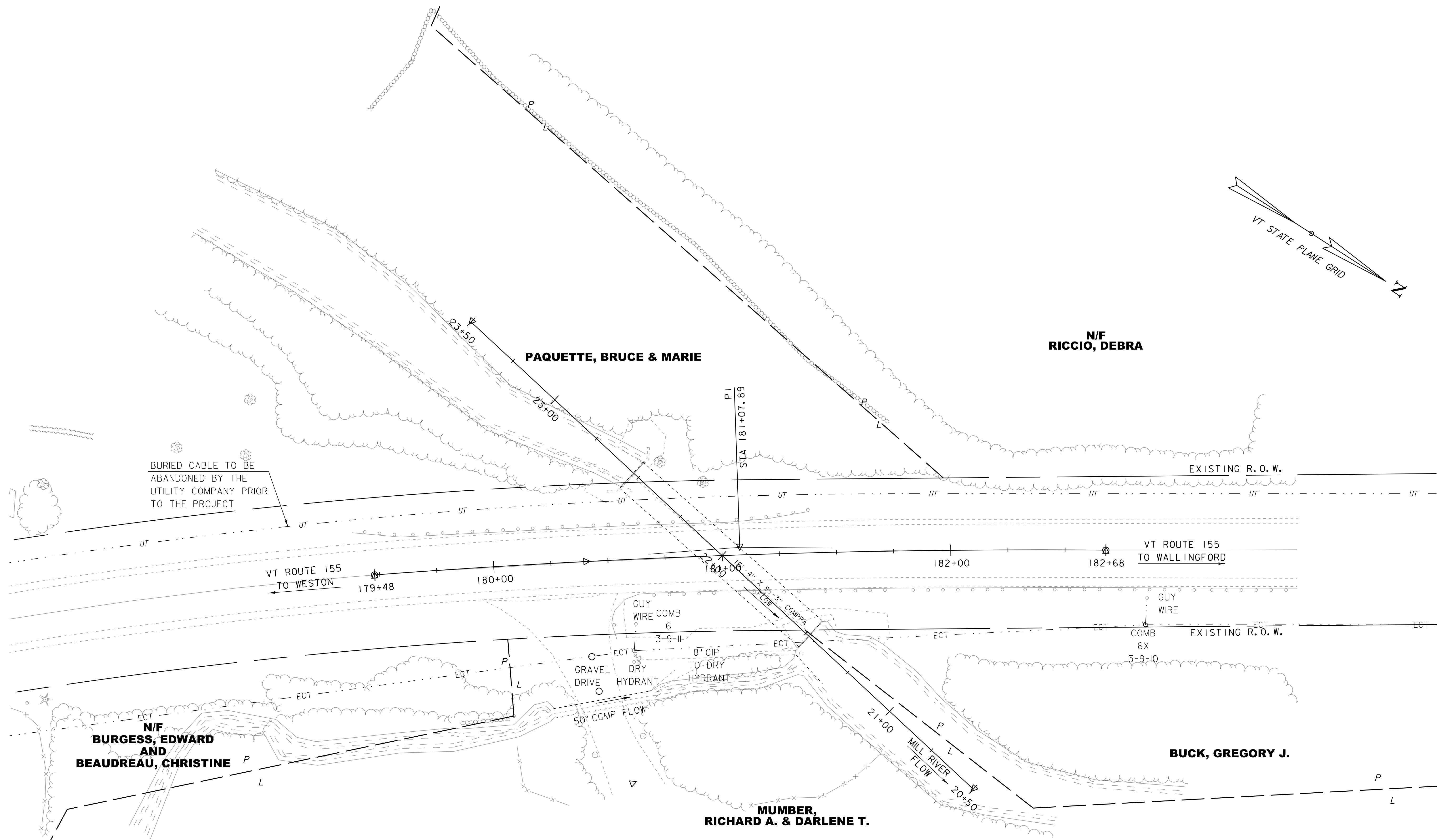
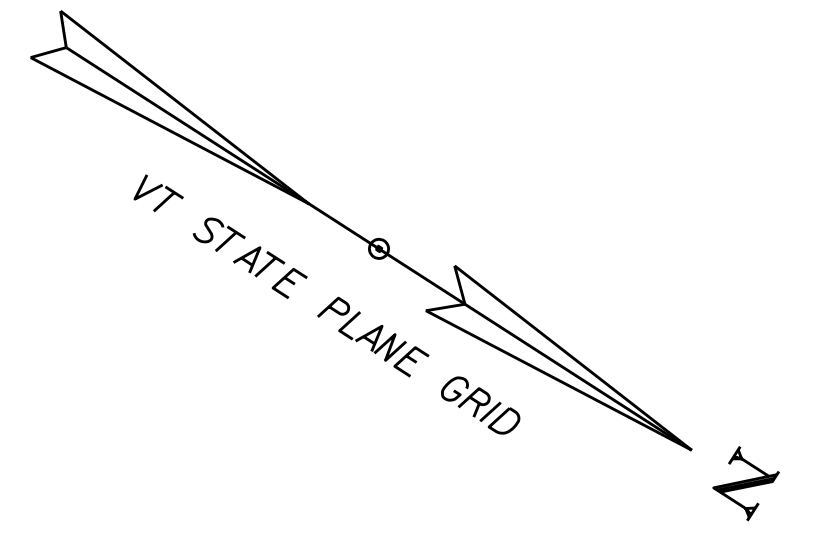


VT 155 BANKING DIAGRAM  
NOT TO SCALE

LEGEND  
 - - - - - RIGHT LANE/SHOULDER  
 \_\_\_\_\_ LEFT LANE/SHOULDER

PROJECT NAME: MT. HOLLY  
 PROJECT NUMBER: BF 0133(12)  
 FILE NAME: sl2c594xs.dgn PLOT DATE: 09-NOV-2018  
 PROJECT LEADER: R.YOUNG DRAWN BY: C.COTE  
 DESIGNED BY: C.COTE CHECKED BY: C.MOONEY  
 BANKING AND MATERIAL TRANSITION DIAGRAMS SHEET 10 OF 25



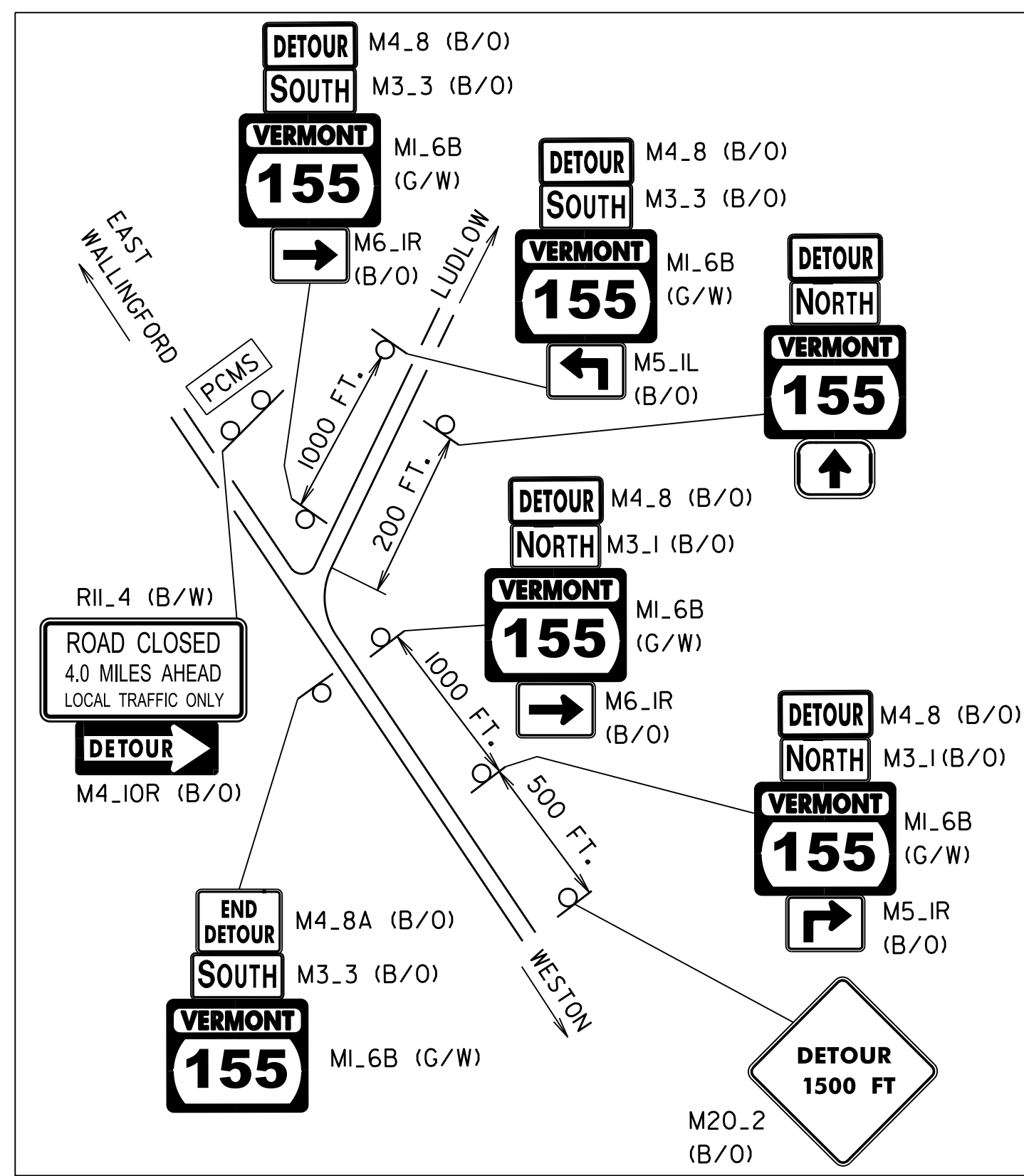


BURIED CABLE TO BE  
ABANDONED BY THE  
UTILITY COMPANY PRIOR  
TO THE PROJECT

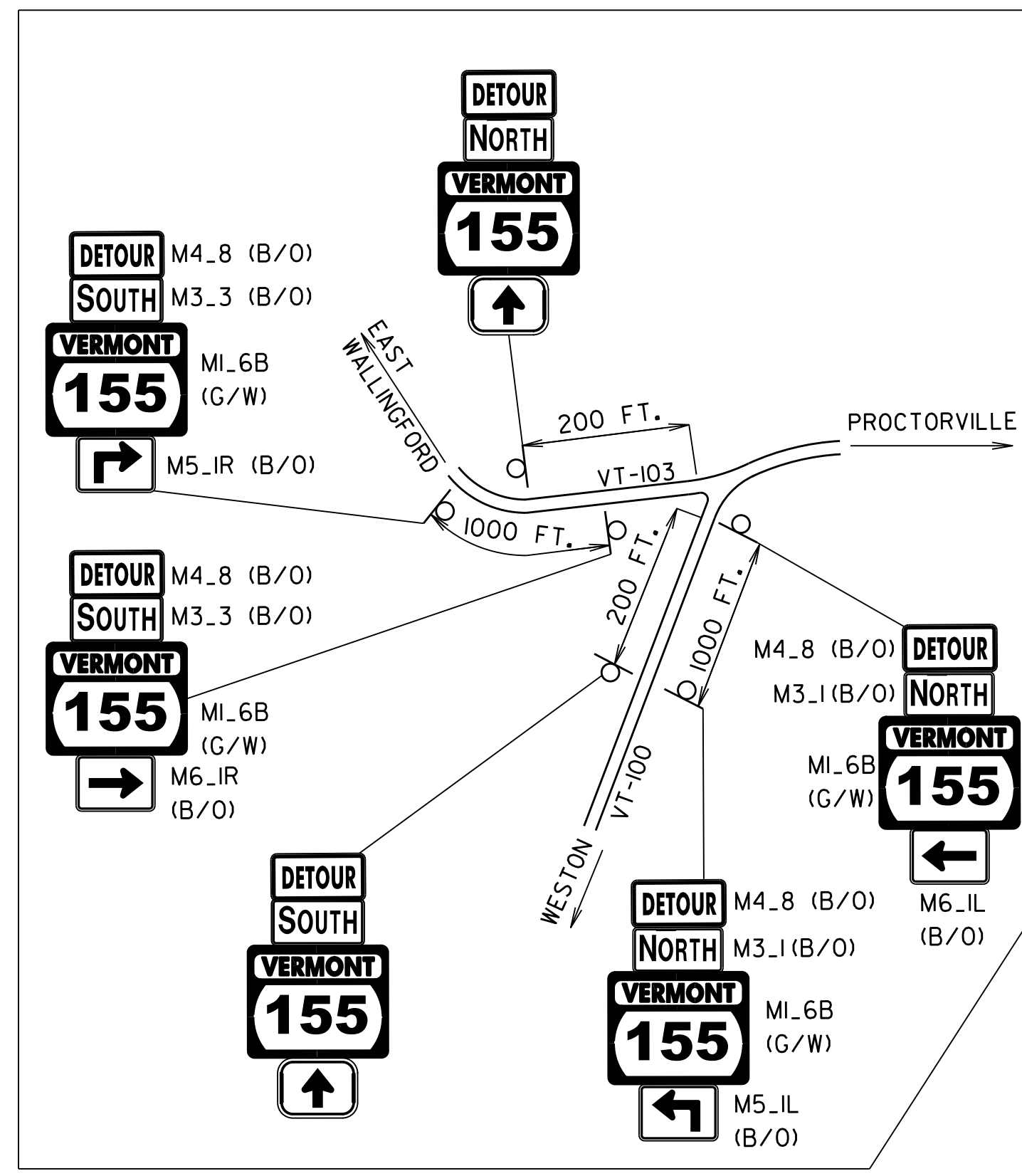
LAYOUT PLAN

SCALE 1" = 20' - 0"

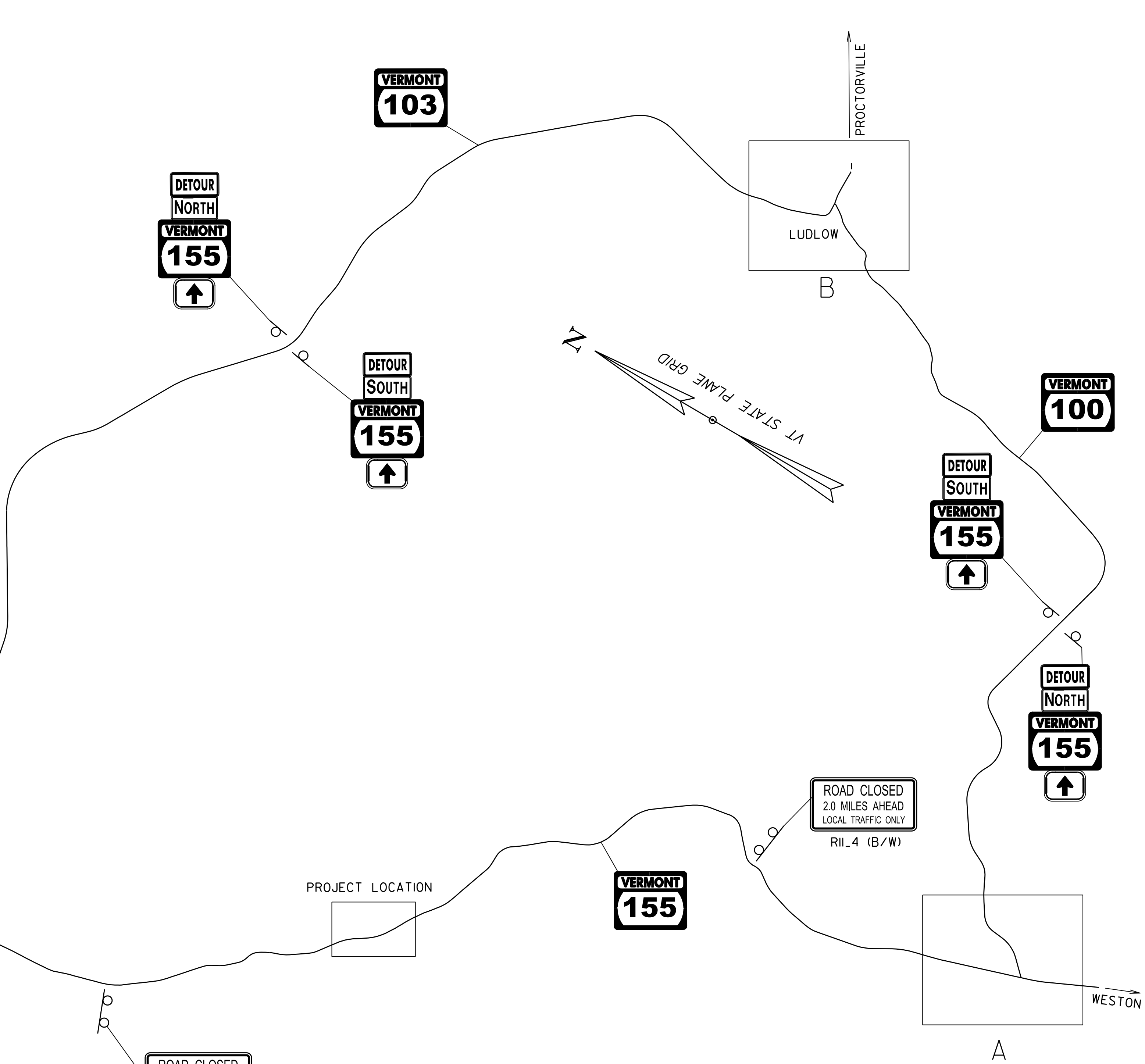
PROJECT NAME:	MT. HOLLY	PLOT DATE:	09-NOV-2018
PROJECT NUMBER:	BF 0133(12)	DRAWN BY:	D.D.BEARD
FILE NAME:	sl2c594u11.dgn	CHECKED BY:	C.MOONEY
PROJECT LEADER:	R.YOUNG	UTILITY LAYOUT PLAN	SHEET II OF 25
DESIGNED BY:	C.COTE		



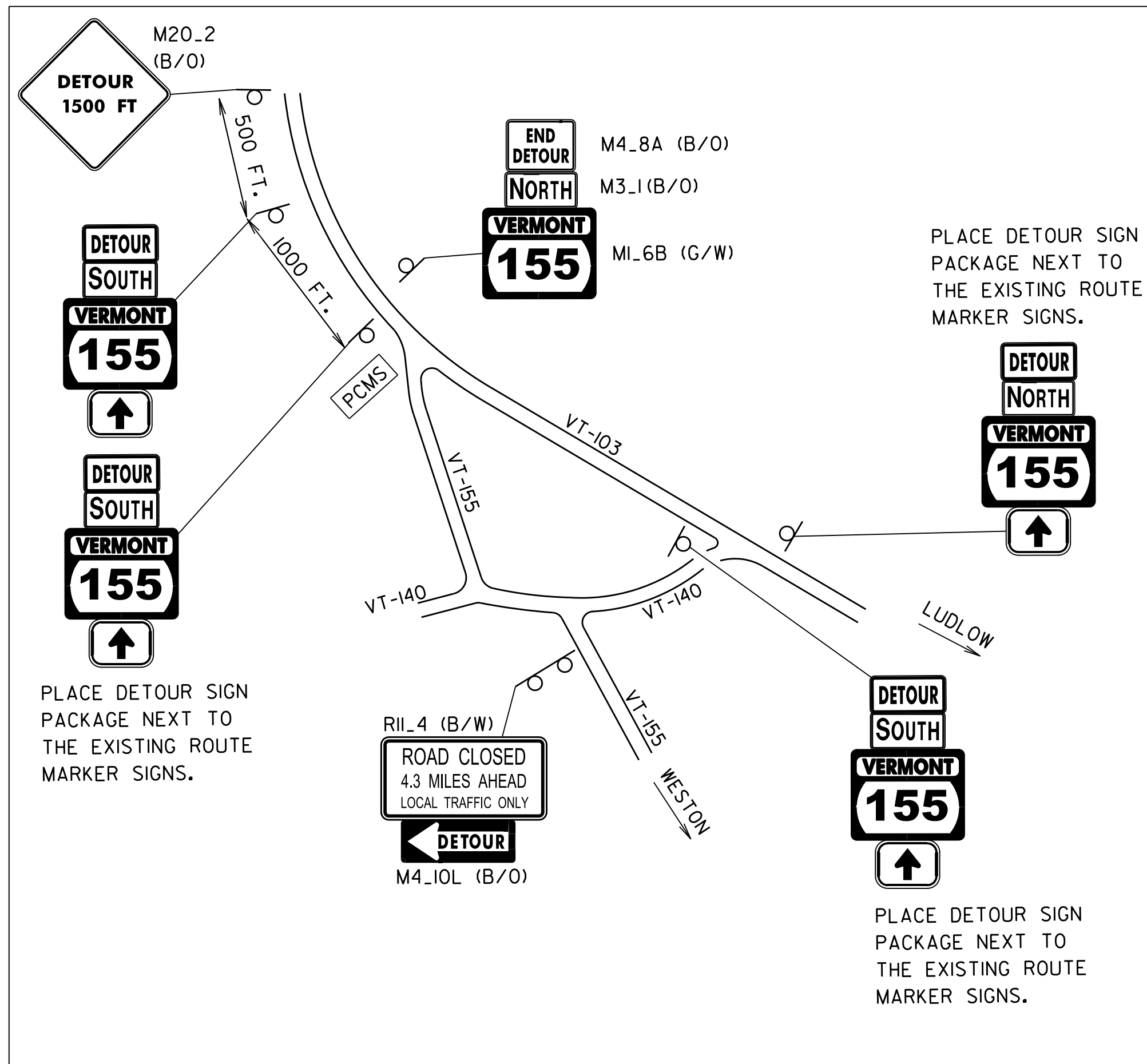
A DETAIL  
NTS



B DETAIL  
NTS



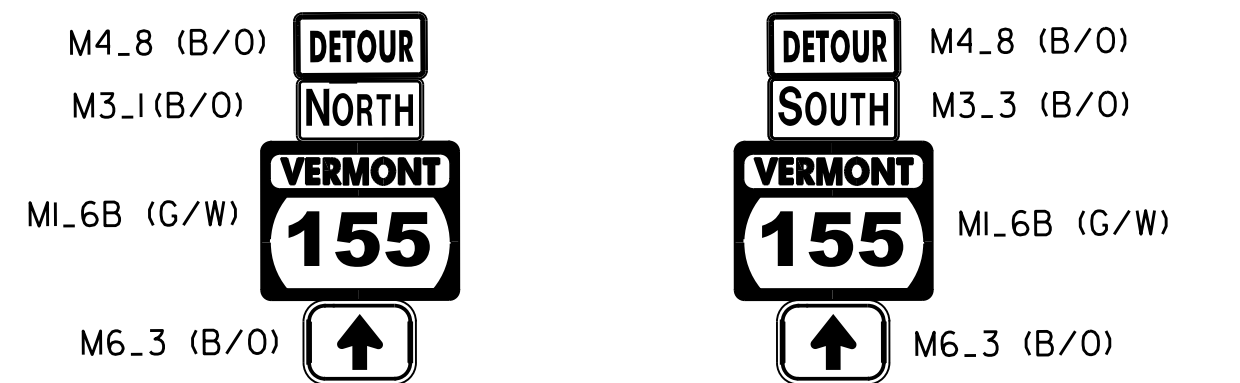
LAYOUT VIEW  
NTS



C DETAIL  
NTS

NOTES:

- PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PLACED OFF THE EDGE OF THE ROADWAY, OUTSIDE THE CLEAR ZONE, BUT SHALL BE VISIBLE FROM THE ROADWAY. ANY VEGETATION THAT INTERFERES WITH VISIBILITY OF THE PCMS SHALL BE REMOVED. REMOVAL OF THE VEGETATION WILL BE INCIDENTAL TO ITEM 641J5, "PORTABLE CHANGEABLE MESSAGE SIGN".
- ORANGE FLAGS SHALL BE USED WITH TEMPORARY DETOUR SIGNS WITH BLACK LETTERING ON WHITE BACKGROUNDS TO HIGHLIGHT INFORMATION FOR THE TRAVELING PUBLIC.
- SEE CONTRACT DOCUMENTS FOR CLOSURE DATES.



TYPICAL NORTH  
ASSEMBLY

TYPICAL SOUTH  
ASSEMBLY

PROJECT NAME: MT. HOLLY  
PROJECT NUMBER: BF 0133(12)

FILE NAME: sl2c594det.dgn  
PROJECT LEADER: R.YOUNG  
DESIGNED BY: G.ROKES  
OFFSITE DETOUR LAYOUT

PLOT DATE: 09-NOV-2018  
DRAWN BY: G.ROKES  
CHECKED BY: C.MOONEY  
SHEET 12 OF 25



**SOIL CLASSIFICATION**

**AASHTO**

A1	Gravel and Sand
A3	Fine Sand
A2	Silty or Clayey Gravel and Sand
A4	Silty Soil - Low Compressibility
A5	Silty Soil - Highly Compressible
A6	Clayey Soil - Low Compressibility
A7	Clayey Soil - Highly Compressible

**ROCK QUALITY DESIGNATION**

R.O.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

**SHEAR STRENGTH**

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

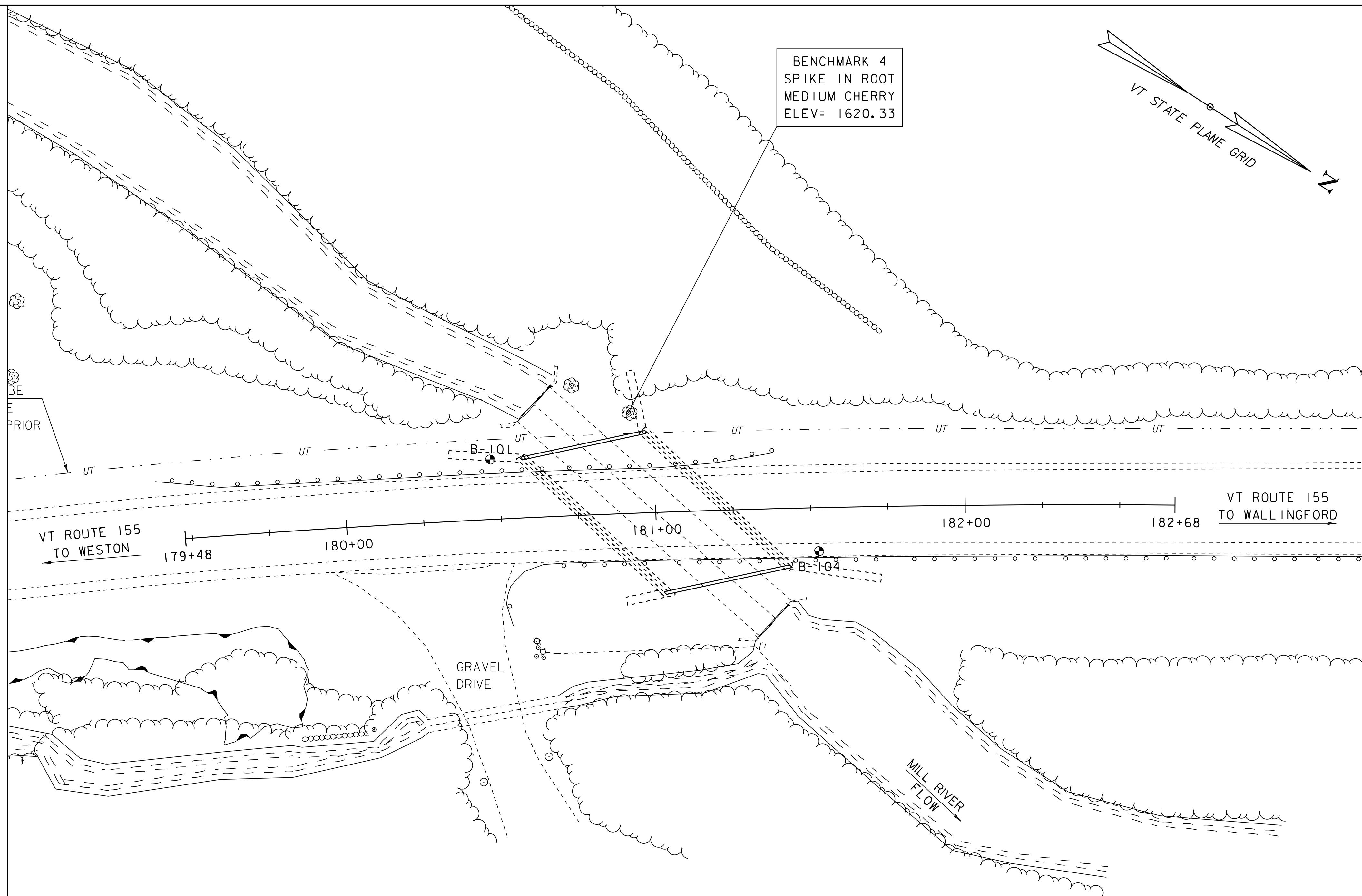
**CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY**

DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

**COMMONLY USED SYMBOLS**

- ▼ Water Elevation
- ⊕ Standard Penetration Boring
- ⊕ Auger Boring
- ⊕ Rod Sounding
- S Sample
- N Standard Penetration Test
- Blow Count Per Foot For:
- 2" O.D. Sampler
- 1 3/8" I.D. Sampler
- Hammer Weight Of 140 Lbs.
- Hammer Fall Of 30"
- VS Field Vane Shear Test
- US Undisturbed Soil Sample
- B Blast
- DC Diamond Core
- MD Mud Drill
- WA Wash Ahead
- HSA Hollow Stem Auger
- AX Core Size 1 1/8"
- BX Core Size 1 5/8"
- NX Core Size 2 1/8"
- M Double Tube Core Barrel Used
- LL Liquid Limit
- PL Plastic Limit
- PI Plasticity Index
- NP Non Plastic
- w Moisture Content (Dry Wgt. Basis)
- D Dry
- M Moist
- MTW Moist To Wet
- W Wet
- Sat Saturated
- Bo Boulder
- Gr Gravel
- Sa Sand
- Sl Silt
- Cl Clay
- HP Hardpan
- Le Ledge
- NLTD No Ledge To Depth
- CNPF Can Not Penetrate Further
- TLOB Top of Ledge Or Boulder
- NR No Recovery
- Rec. Recovery
- %Rec. Percent Recovery
- RQD Rock Quality Designation
- CBR California Bearing Ratio
- < Less Than
- > Greater Than
- R Refusal (N > 100)
- VTSPG NAD83 - See Note 7

COLOR			
blk	Black	pnk	Pink
bl	Blue	pu	Purple
brn	Brown	rd	Red
dk	Dark	tn	Tan
gry	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mltc	Multicolored
or	Orange		



**DEFINITIONS (AASHTO)**

- BEDROCK (LEDGE)** - Rock in its native location of indefinite thickness.
- BOULDER** - A rock fragment with an average dimension > 12 inches.
- COBBLE** - Rock fragments with an average dimension between 3 and 12 inches.
- GRAVEL** - Rounded particles of rock < 3" and > 0.075" (#10 sieve).
- SAND** - Particles of rock < 0.075" (#10 sieve) and > 0.0025" (#200 sieve).
- SILT** - Soil < 0.0025" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.
- CLAY** - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.
- VARVED** - Alternate layers of silt and clay.
- HARDPAN** - Extremely dense soil, cemented layer, not softened when wet.
- MUCK** - Soft organic soil (containing > 10% organic material).
- MOISTURE CONTENT** - Weight of water divided by dry weight of soil.
- FLOWING SAND** - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.
- STRIKE** - Angle from magnetic north to line of intersection of bed with a horizontal plane.
- DIP** - Inclination of bed with a horizontal plane.

**GENERAL NOTES**

- The subsurface explorations shown herein were made between \_\_\_\_\_ and \_\_\_\_\_ by the Agency.
- Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
- Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
- Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
- Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
- Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.
- Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.

**BORING CHART**

HOLE NO.	SURV. STATION	OFFSET	GROUND ELEV.	ELEV. TLOB
B-101	178+88	20.0LT	1620.0	1570.0
B-104	179+95	14.4RT	1619.9	1557.2

PROJECT NAME: **MT. HOLLY**  
 PROJECT NUMBER: **BF 0133(12)**  
 FILE NAME: sl2c594Boring.dgn  
 PROJECT LEADER: R.YOUNG  
 DESIGNED BY: C.COTE  
 BORING INFORMATION SHEET

PLOT DATE: 09-NOV-2018  
 DRAWN BY: D.D.BEARD  
 CHECKED BY: C.MOONEY  
 SHEET 13 OF 25

Boring Crew: Garrow, Emerson  
 Date Started: 9/27/16 Date Finished: 9/30/16  
 VTSPG NAD83: N 327803.89 ft E 1552774.05 ft  
 Station: 178+88 Offset: -20.00  
 Ground Elevation: 1620.0 ft

Type: WB Sampler: SS  
 I.D.: 4 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C SKHUB>><<SUB>> = 1.42

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	Groundwater Observations		
											Date	Depth (ft)	Notes
		A-2-4, Sa, brn, Moist, Rec. = 0.4 ft				1-1-1-1 (2)	9.5	19.3	63.9	16.8			
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft				2-4-6-3 (10)	3.9	55.1	38.1	6.8			
5		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, Lab Note: Broken rock was within sample Field Note: NXDC, Cleaned out casing				5-6-10-8 (16)	4.2	61.8	31.6	6.6			
		A-1-a, SaGr, blk-brn, Moist, Rec. = 0.2 ft Field Note: NXDC, Cleaned out casing				5-3-2-2 (5)	14.4	70.8	26.5	2.7			
		A-1-b, SiSaGr, gry-brn, Moist, Rec. = 1.0 ft, Lab Note: Broken rock was within sample Field Note: NXDC, Cleaned out casing				4-3-8-7 (11)	10.0	47.6	29.4	23.0			
10		A-1-a, SaGr, gry-brn, Moist, Rec. = 0.7 ft, Lab Note: Broken rock was within sample Field Note: NXDC, Cleaned out casing				3-4-15-19 (19)	11.8	61.8	29.5	8.7			
		Field Note: NXDC, Cleaned out casing				2-7-2-1 (9)							
		Field Note: No Recovery											
15		Field Note: NXDC, Cleaned out casing A-4, GrSaSi, gry, Moist, Rec. = 1.3 ft, Lab Note: Broken rock was within sample Field Note: NXDC, Cleaned out casing				10-21-25-35 (46)	9.9	24.7	31.9	43.4			
		A-4, SaSi, brn, Moist, Rec. = 1.1 ft Field Note: NXDC, Cleaned out casing				26-46-28-R@0" (74)	11.6	17.3	31.8	50.9			
		A-4, SaSi, brn, Moist, Rec. = 1.4 ft Field Note: NXDC, Cleaned out casing				23-33-26-R@3.5" (59)	13.2	19.3	30.7	50.0			
20		A-4, GrSaSi, brn, Moist, Rec. = 1.4 ft Field Note: NXDC, Cleaned out casing				23-28-32-R@3.5" (60)	13.0	22.1	41.1	36.8			
		Field Note: NXDC, Cleaned out casing											
25		A-4, GrSaSi, gry-brn, Moist, Rec. = 0.7 ft Field Note: Cobbles				40-R@2.5" (R)	9.7	20.0	36.7	43.3			
		Field Note: NXDC, Cleaned out casing											
30		A-1-a, SaGr, gry-brn, Moist, Rec. = 0.4 ft, Lab Note: Broken rock was within sample				R@3.5" (R)	7.6	60.0	25.8	14.2			

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
 <<SUB>><<SUB>> is the hammer energy correction factor.  
 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

Boring Crew: Garrow, Emerson  
 Date Started: 9/27/16 Date Finished: 9/30/16  
 VTSPG NAD83: N 327803.89 ft E 1552774.05 ft  
 Station: 178+88 Offset: -20.00  
 Ground Elevation: 1620.0 ft

Type: WB Sampler: SS  
 I.D.: 4 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C SKHUB>><<SUB>> = 1.42

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	Groundwater Observations		
											Date	Depth (ft)	Notes
35		Field Note: NXDC, Cleaned out casing A-4, SiSa, brn, Moist, Rec. = 1.2 ft											
		Field Note: NXDC, Cleaned out casing											
40		Field Note: NXDC, Cleaned out casing A-4, SiSa, Lt/brn, Moist, Rec. = 0.2 ft Field Note: NXDC, Cleaned out casing											
45		Field Note: No Recovery											
50		50.0 ft - 55.0 ft, Tan/white, Muscovite-biotite-plagioclase-quartz GRANITIC GNEISS, with rust and brown staining along joints. Medium hard, Moderately weathered, Poor rock, NX, RMR=27	1 (45)	82 (0)	4								
55		55.0 ft - 60.0 ft, Tan/white, Muscovite-biotite-quartz GRANITIC GNEISS, with rust and brown staining along joints. Vertical joints at 57.0 feet to 57.3 feet and 58.3 feet to 58.6 feet. Medium hard, Moderately weathered, Poor rock, NX, RMR=36	2 (40)	100 (0)	4								
60		Hole stopped @ 60.0 ft											
65		Remarks: Hole collapsed at 9.0 feet. 1. Sample was attempted at 50 feet. No penetration, no recovery.											

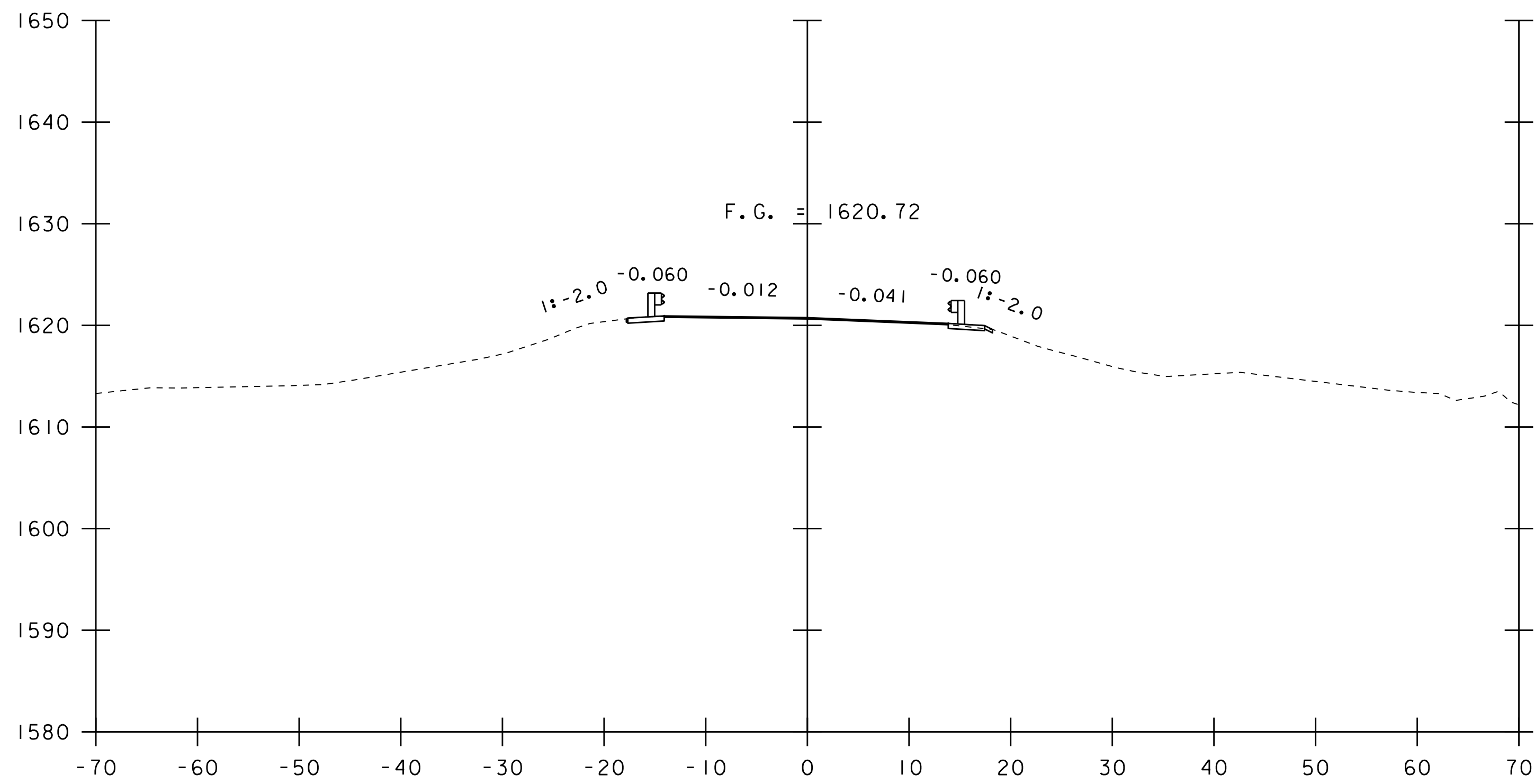
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
 <<SUB>><<SUB>> is the hammer energy correction factor.  
 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

BORING LOG 2 MT. HOLLY BF01331(12), GPJ VERMONT AOT.GDT 10/20/16

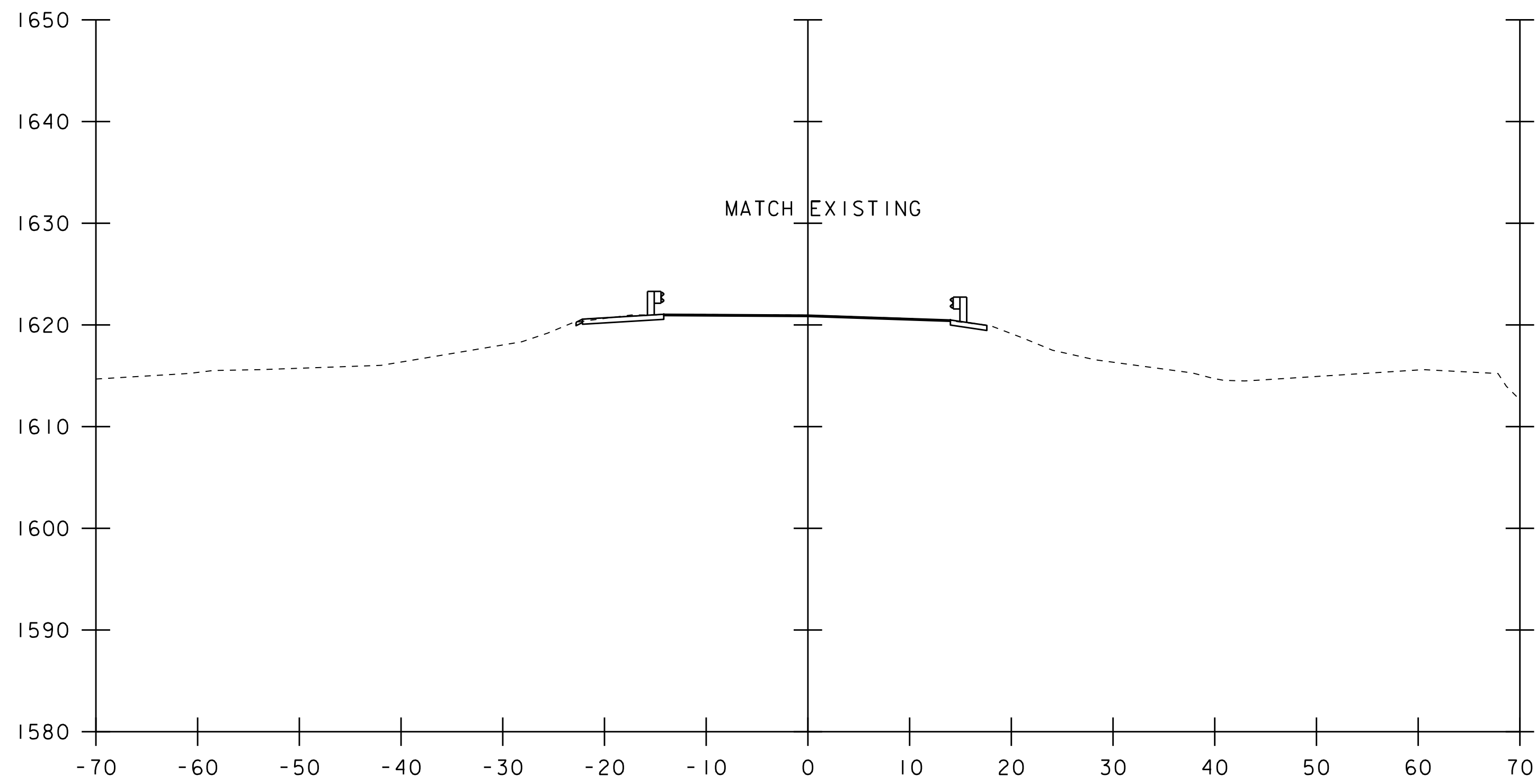
BORING LOG 2 MT. HOLLY BF01331(12), GPJ VERMONT AOT.GDT 10/20/16



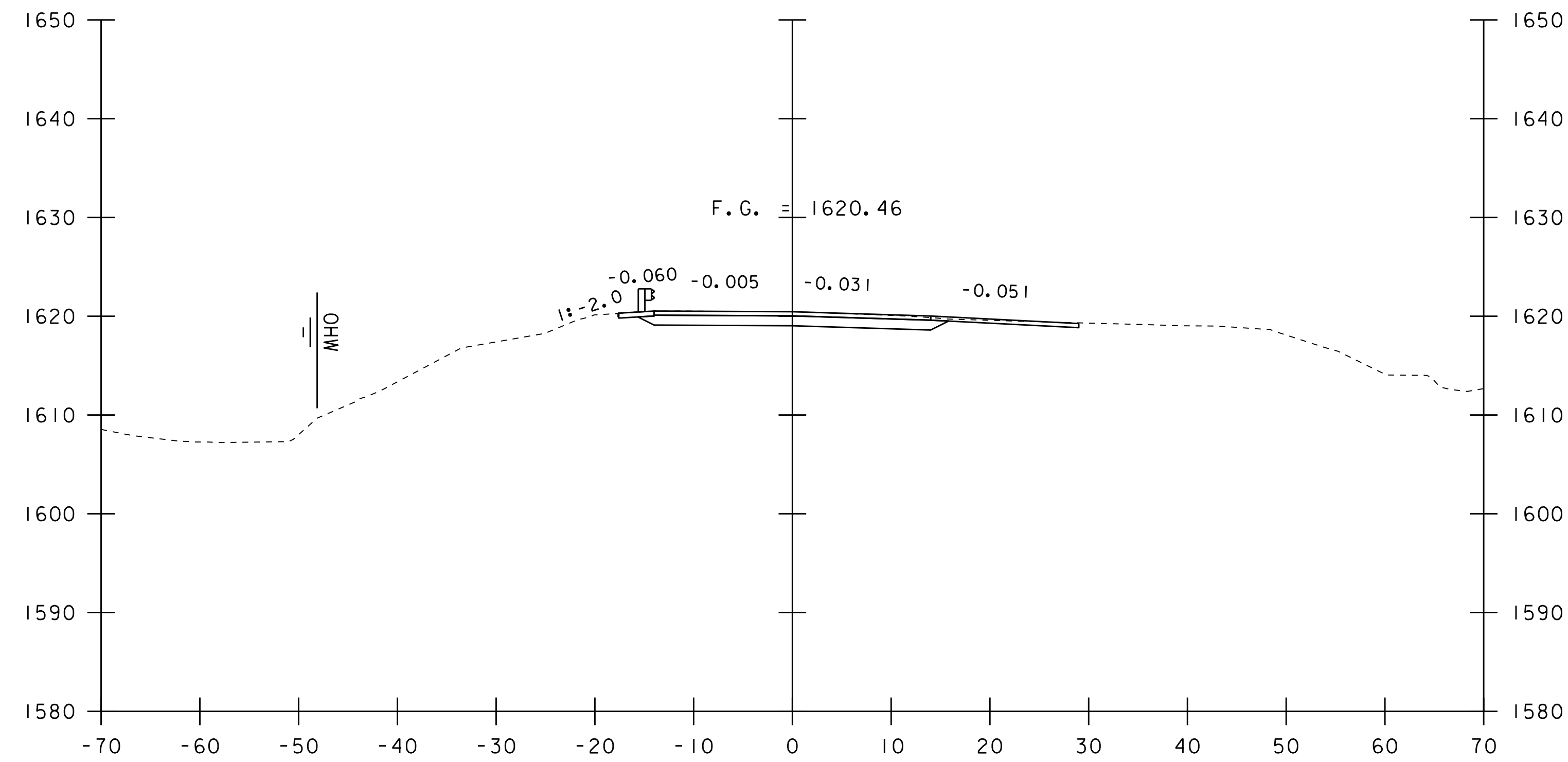




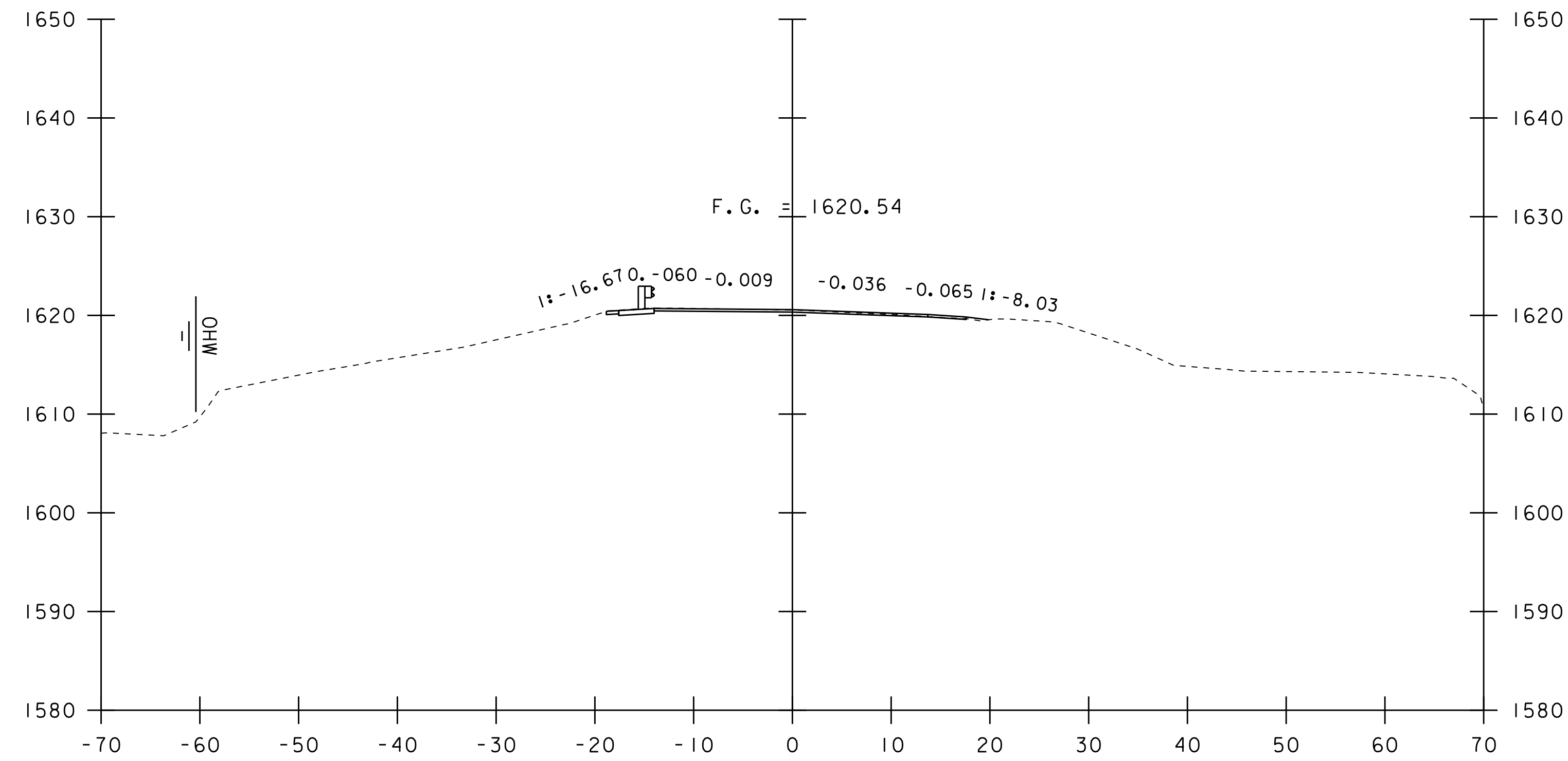
179+75



179+50



180+25

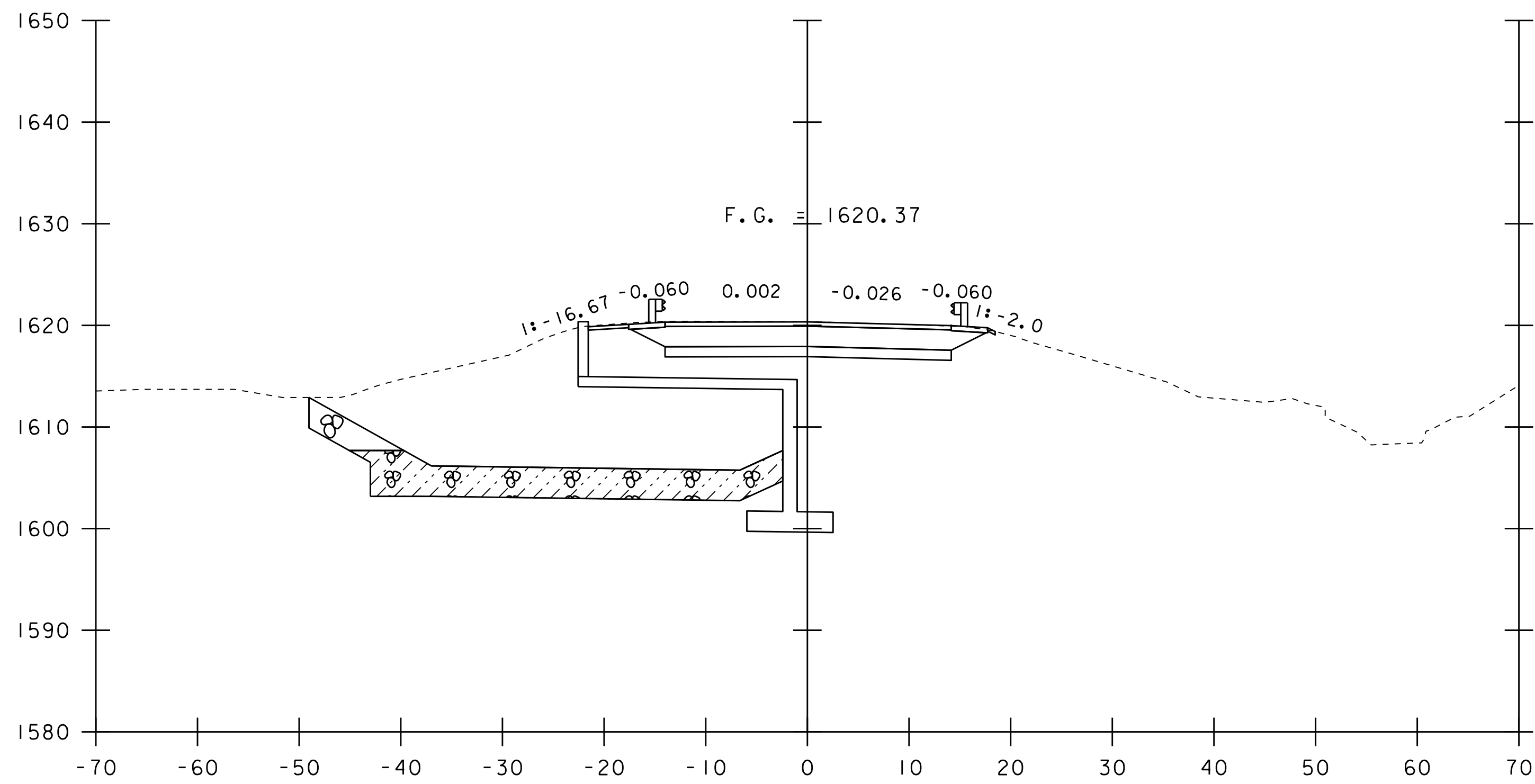


180+00

PROJECT NAME:	MT. HOLLY	PLOT DATE:	09-NOV-2018
PROJECT NUMBER:	BF 0133(12)	DRAWN BY:	C.COTE
FILE NAME:	sl2c594xs.dgn	CHECKED BY:	C.MOONEY
PROJECT LEADER:	R.YOUNG	SHEET	16 OF 25
DESIGNED BY:	C.COTE		
VT-155 CROSS SECTIONS SHEET 1			

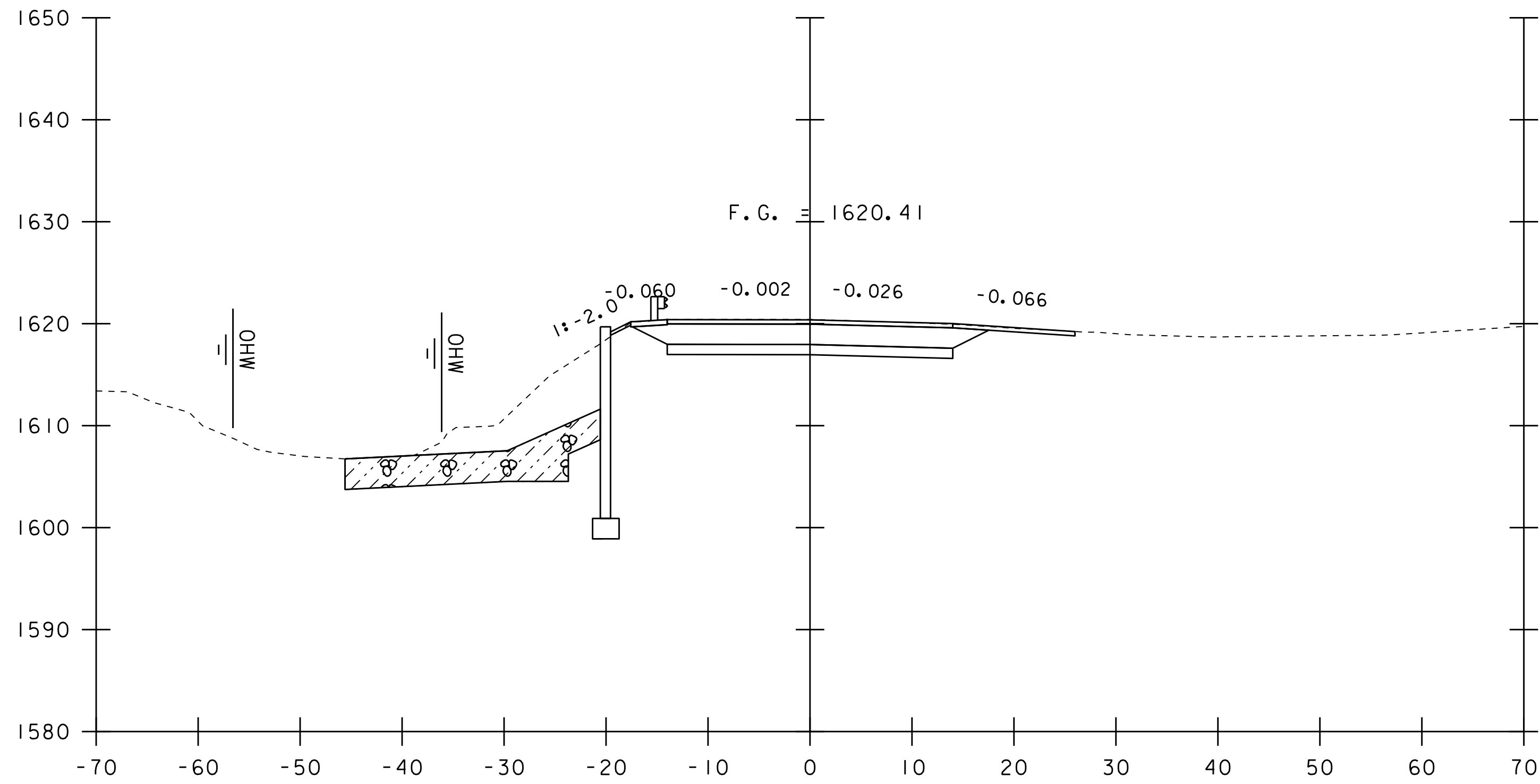
STA. 179+50 TO STA. 180+25





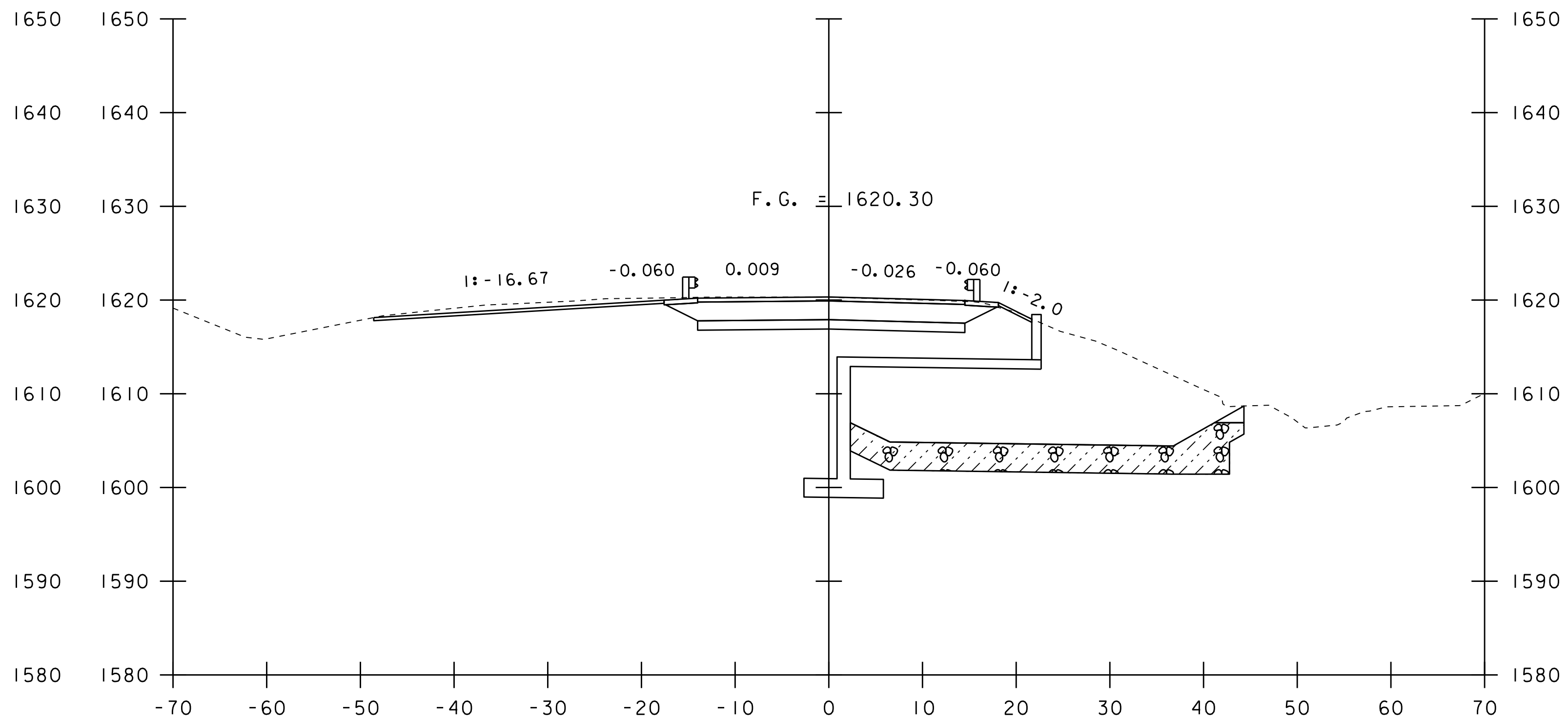
180+75

BEGIN BRIDGE  
STA 180+76.02



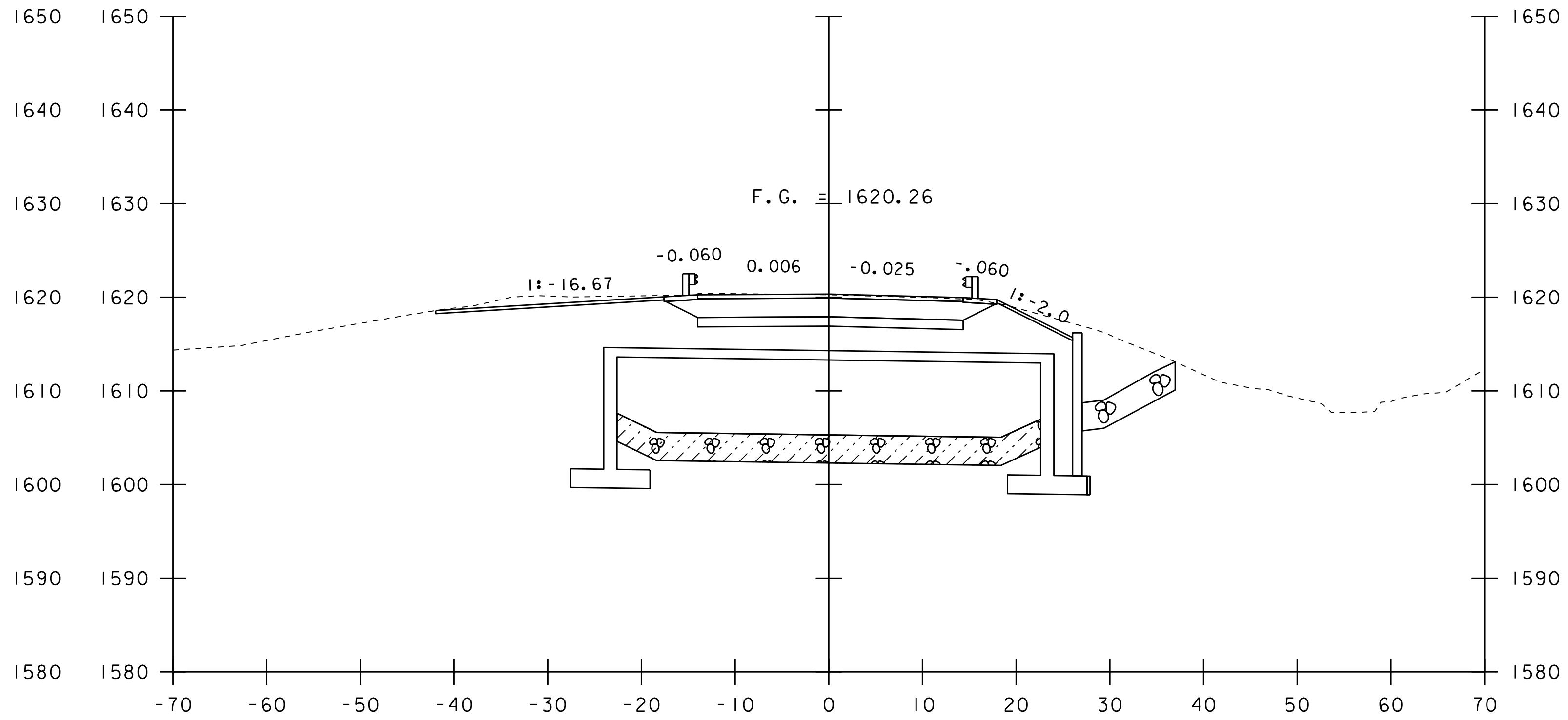
180+50

BEGIN PROJECT



181+25

END BRIDGE  
STA 181+24.13



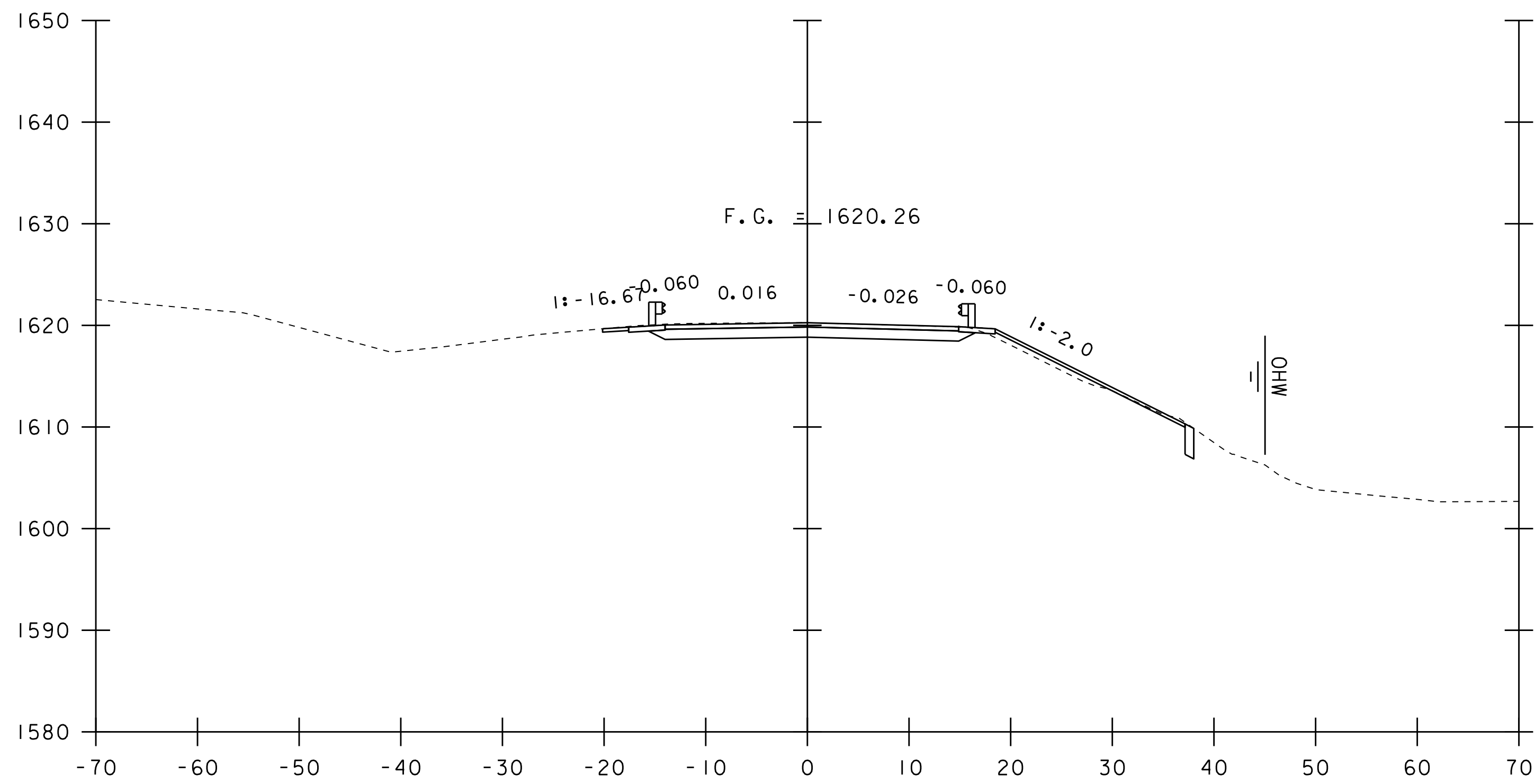
181+00

STA. 180+50 TO STA. 181+25

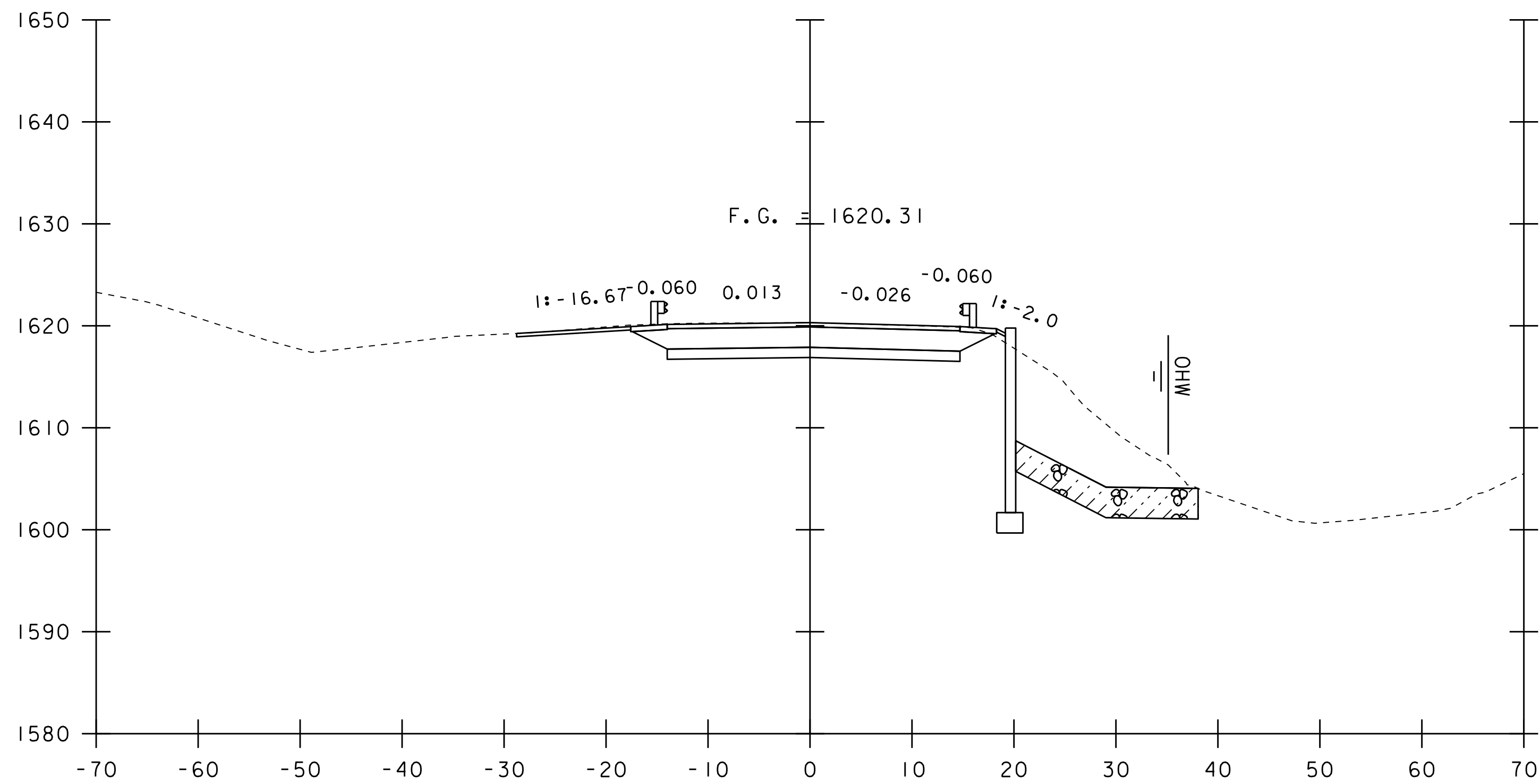
PROJECT NAME: MT. HOLLY  
PROJECT NUMBER: BF 0133(12)

FILE NAME: sl2c594xs.dgn  
PROJECT LEADER: R.YOUNG  
DESIGNED BY: C.COTE  
VT-155 CROSS SECTIONS SHEET 2

PLOT DATE: 09-NOV-2018  
DRAWN BY: C.COTE  
CHECKED BY: C.MOONEY  
SHEET 17 OF 25

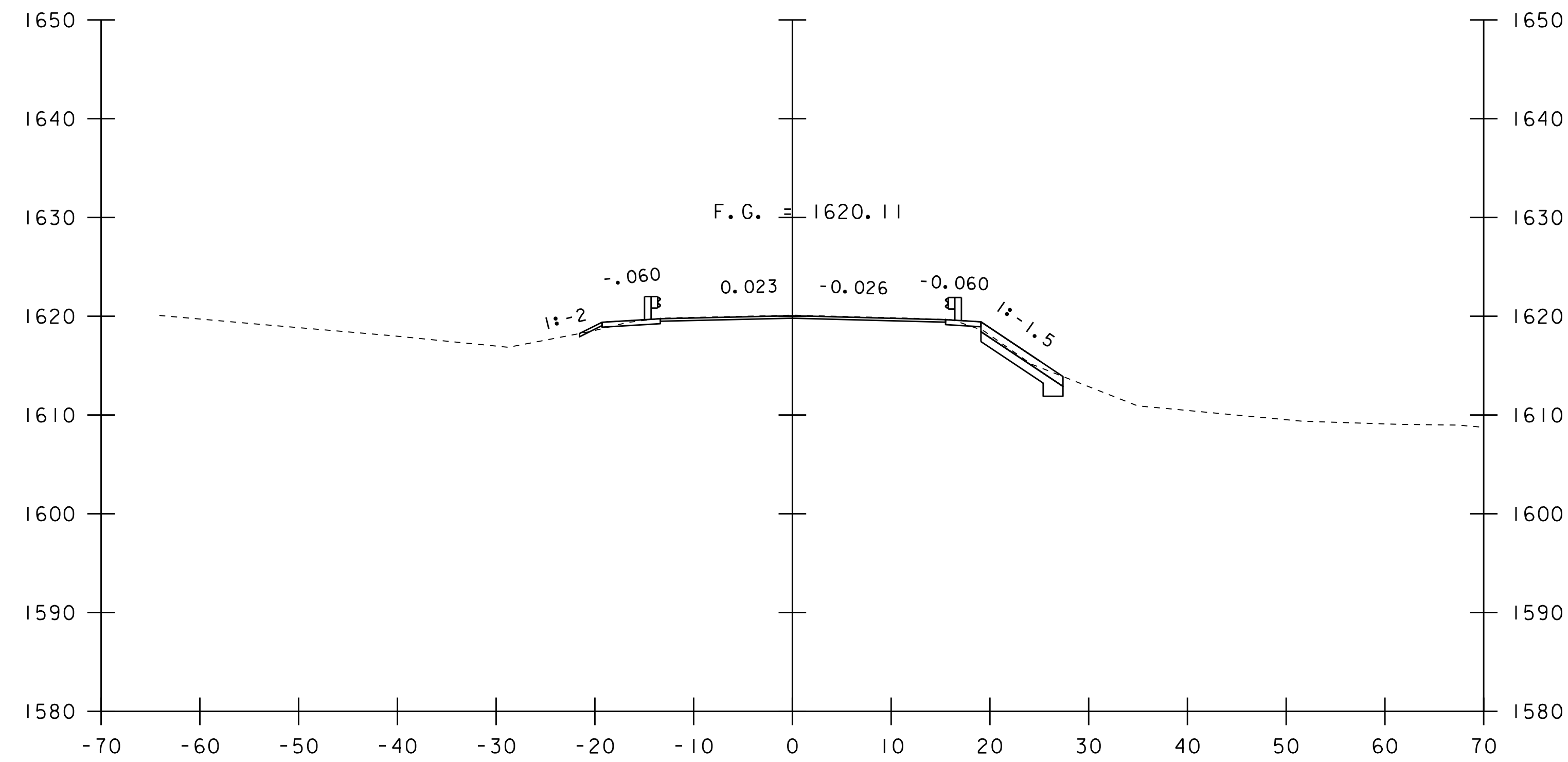


181+75

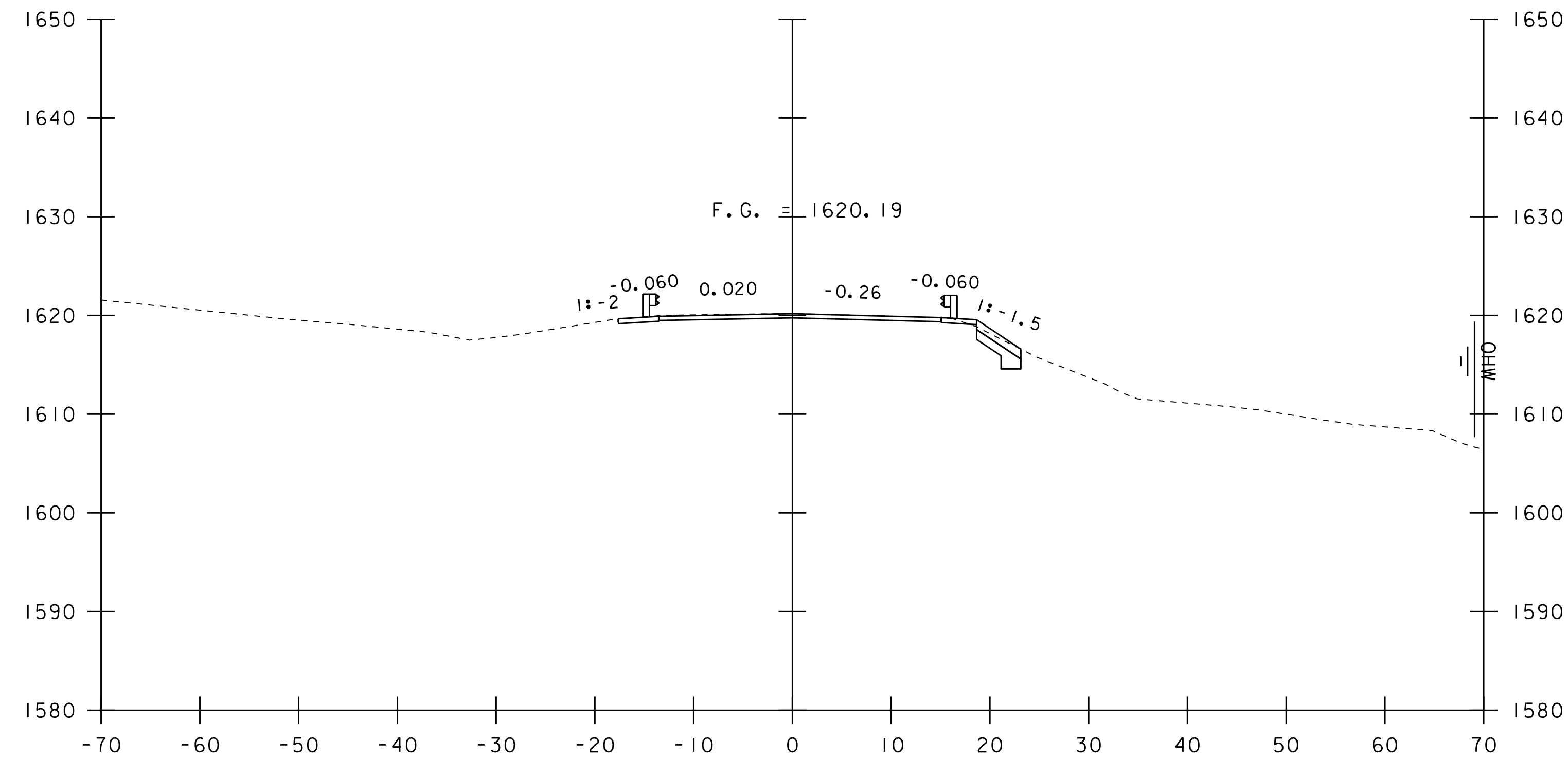


181+50

END PROJECT



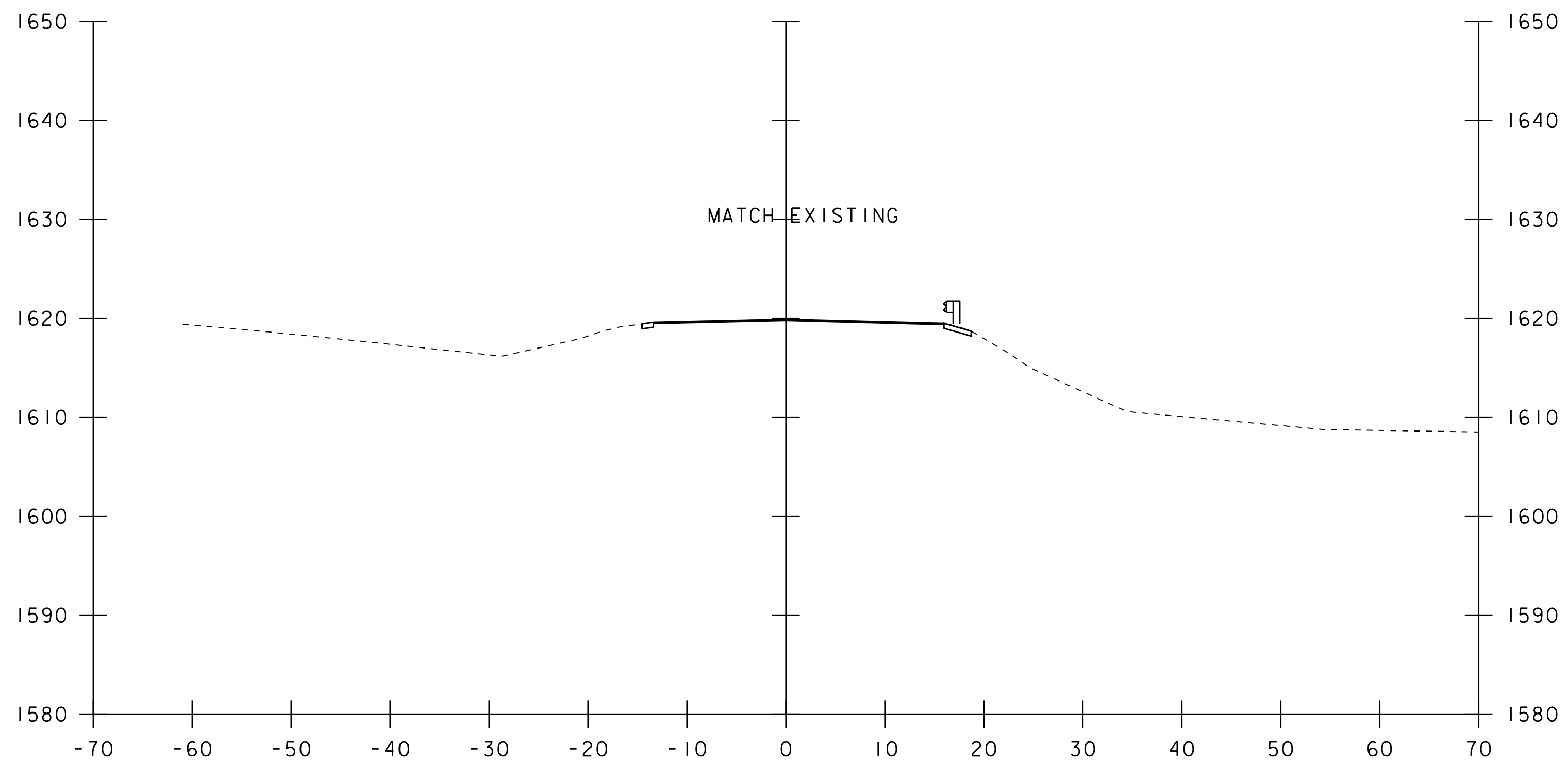
182+25



182+00

STA. 181+50 TO STA. 182+25

PROJECT NAME: MT. HOLLY	PLOT DATE: 09-NOV-2018
PROJECT NUMBER: BF 0133(12)	DRAWN BY: C.COTE
FILE NAME: sl2c594xs.dgn	CHECKED BY: C.MOONEY
PROJECT LEADER: R.YOUNG	SHEET 18 OF 25
DESIGNED BY: C.COTE	
VT-155 CROSS SECTIONS SHEET 3	



182+50

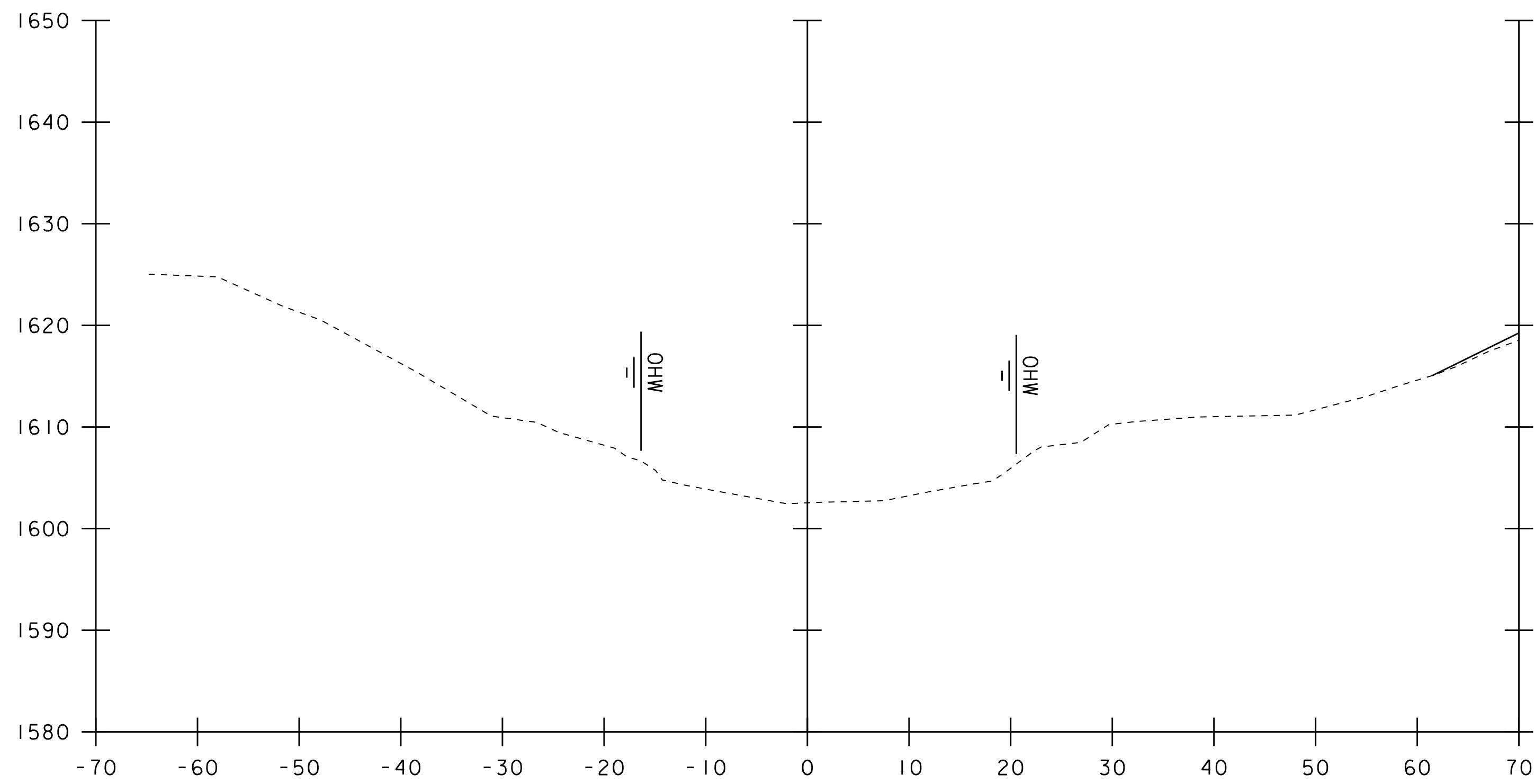
PROJECT NAME: MT. HOLLY  
 PROJECT NUMBER: BF 0133(12)

FILE NAME: sl2c594xs.dgn  
 PROJECT LEADER: R.YOUNG  
 DESIGNED BY: C.COTE  
 VT-155 CROSS SECTIONS SHEET 4

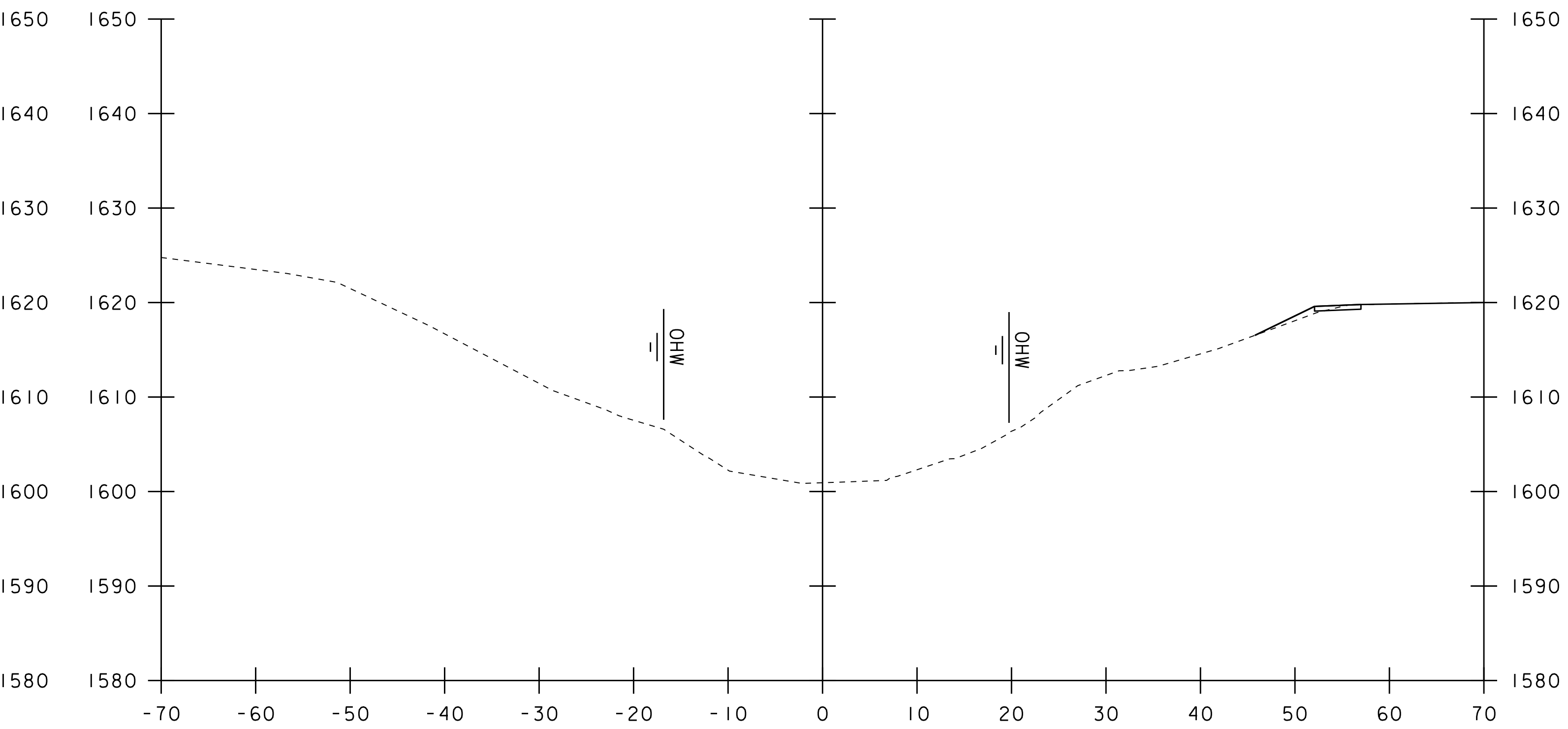
PLOT DATE: 09-NOV-2018  
 DRAWN BY: C.COTE  
 CHECKED BY: C.MOONEY  
 SHEET 19 OF 25

STA. 182+50

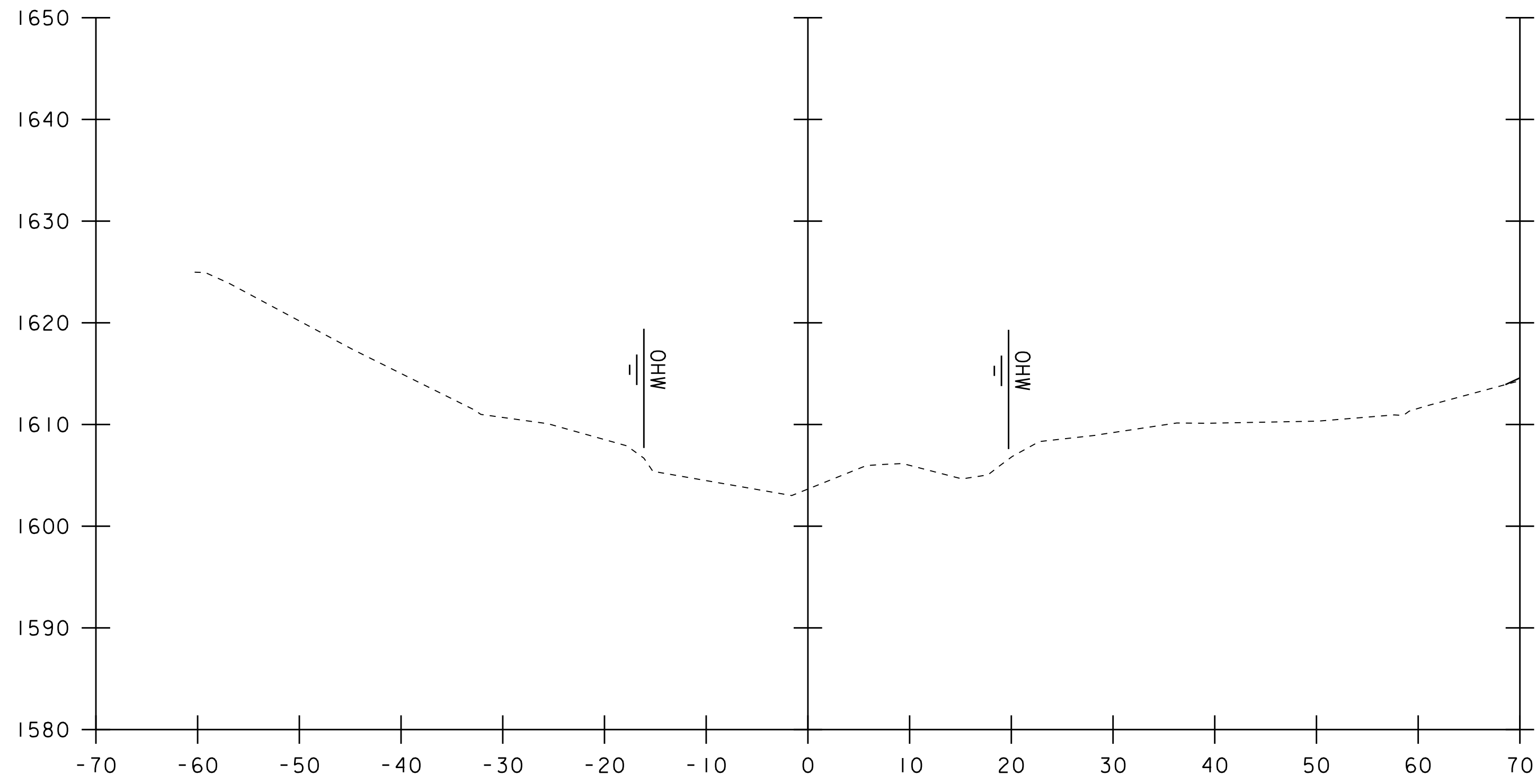




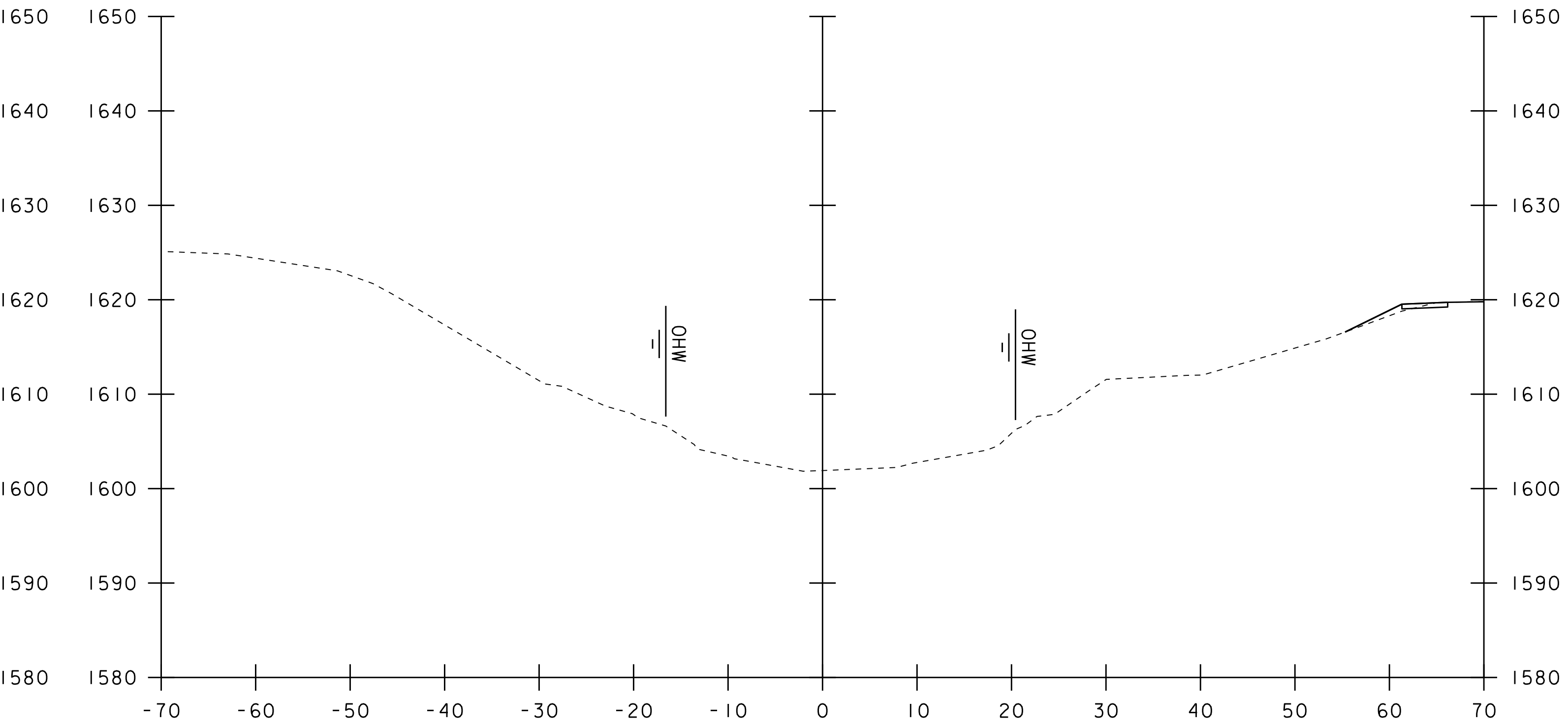
21+00



21+20



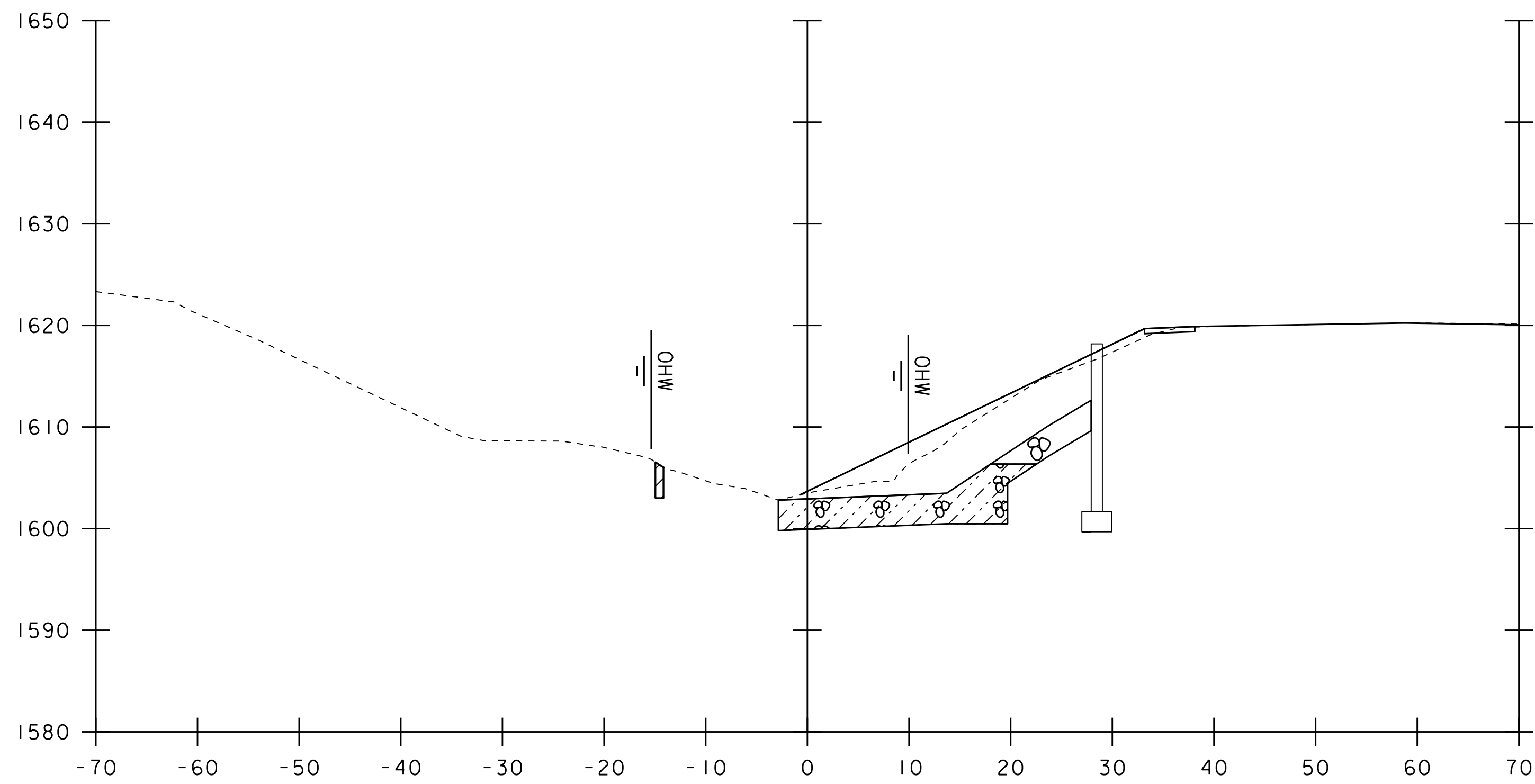
20+90



21+10

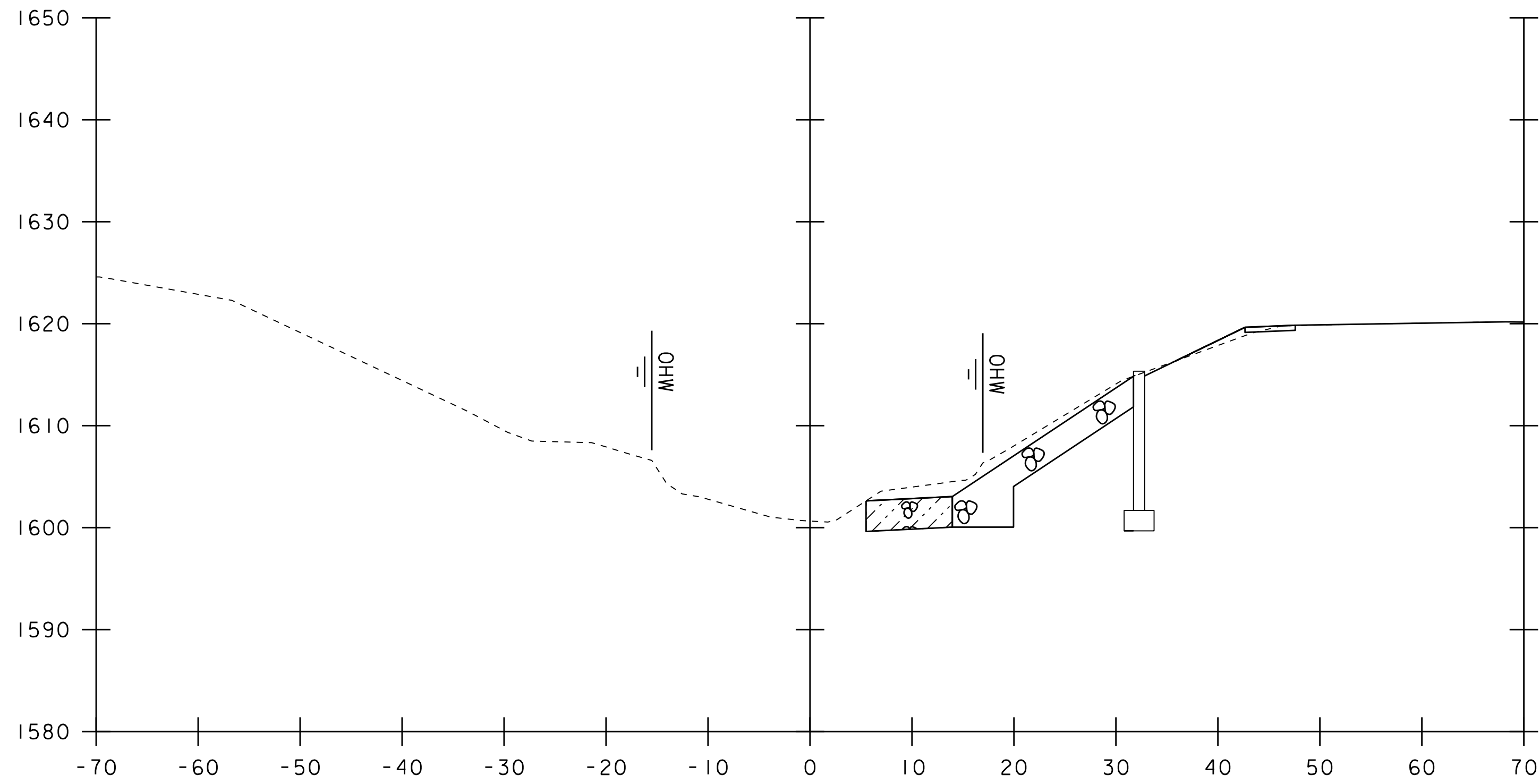
STA. 20+90 TO STA. 21+20

PROJECT NAME:	MT. HOLLY	FILE NAME:	sl2c594xs.dgn	PLOT DATE:	09-NOV-2018
PROJECT NUMBER:	BF 0133(12)	PROJECT LEADER:	R.YOUNG	DRAWN BY:	C.COTE
		DESIGNED BY:	C.COTE	CHECKED BY:	C.MOONEY
		CHANNEL SECTIONS SHEET 1		SHEET	20 OF 25



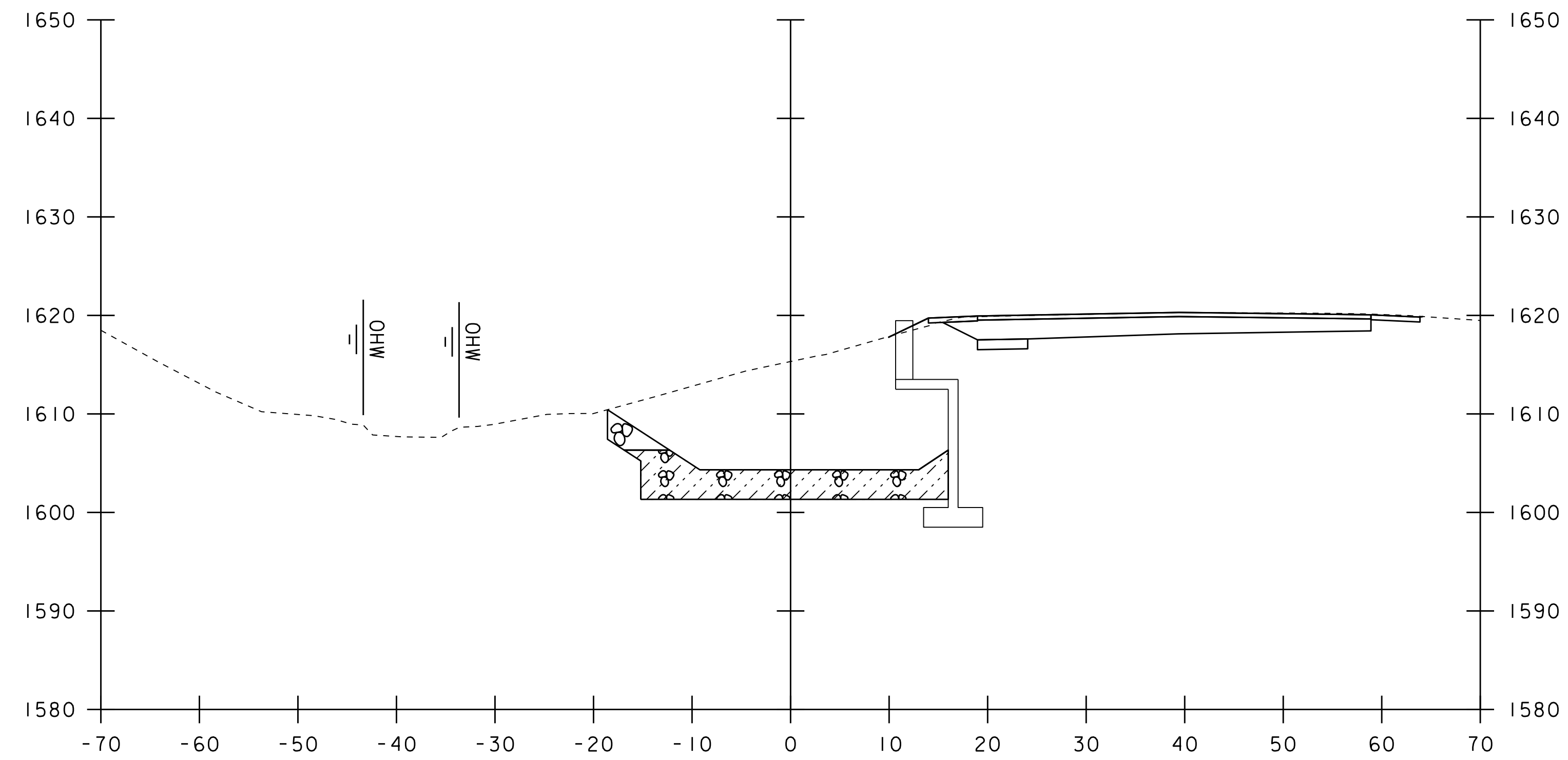
21+40

BEGIN 21+47 LT  
 UNCLASSIFIED CHANNEL EXCAVATION  
 STONE FILL TYPE III  
 E-STONE FILL TYPE III  
 GEOTEXTILE UNDER STONE FILL  
 GRUBBING MATERIAL

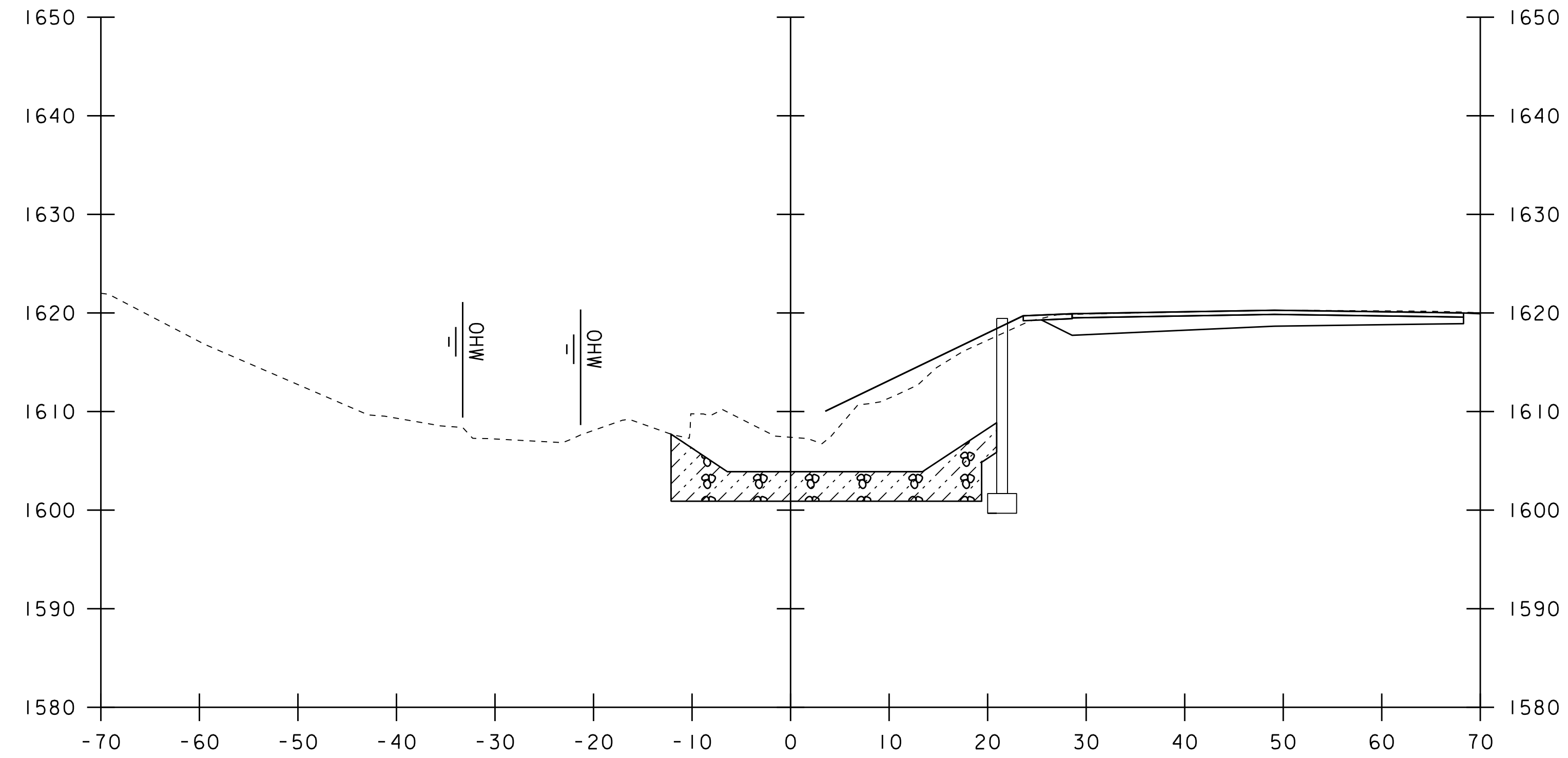


21+30

BEGIN 21+20 RT  
 UNCLASSIFIED CHANNEL EXCAVATION  
 STONE FILL TYPE III  
 E-STONE FILL TYPE III  
 GEOTEXTILE UNDER STONE FILL  
 GRUBBING MATERIAL



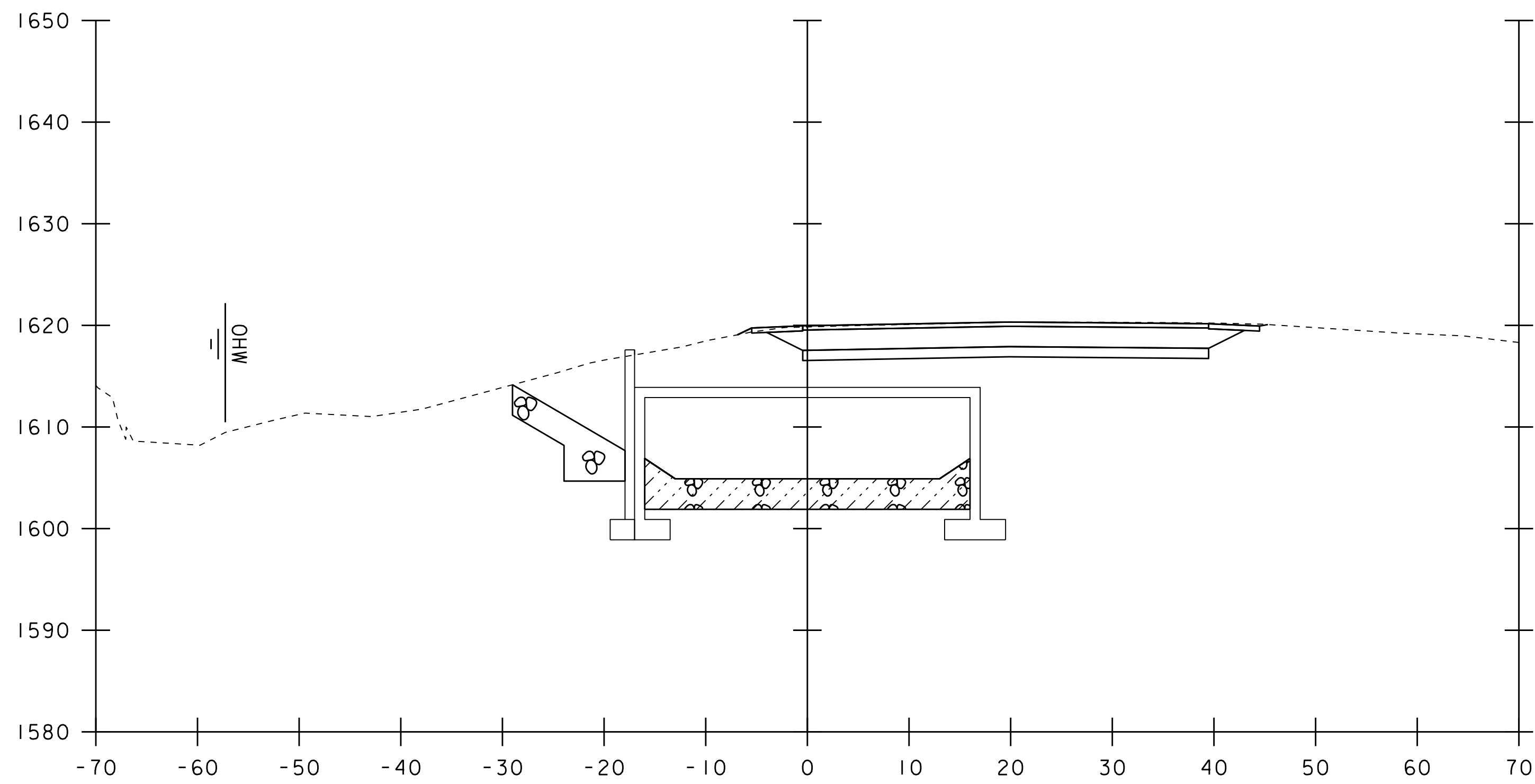
21+60



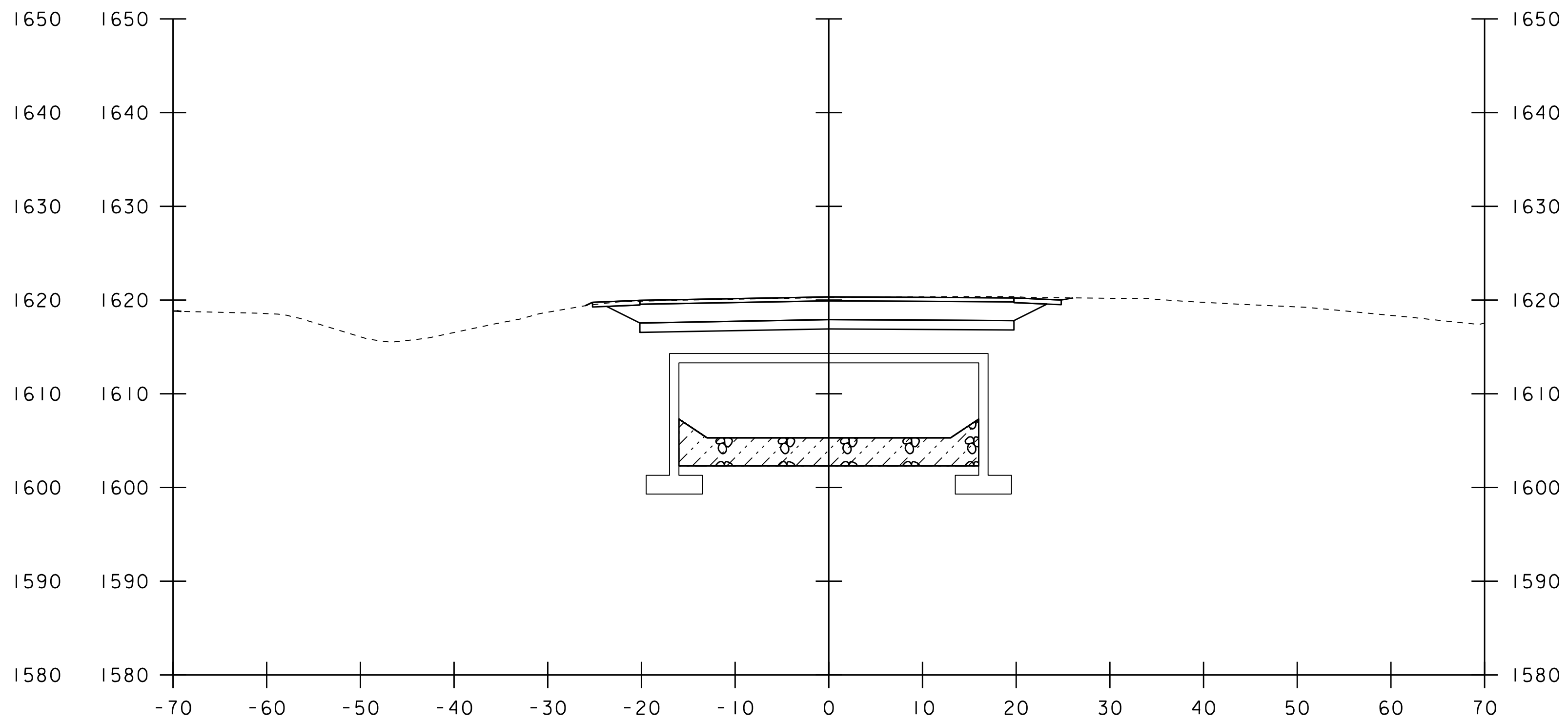
21+50

STA. 21+30 TO STA. 21+60

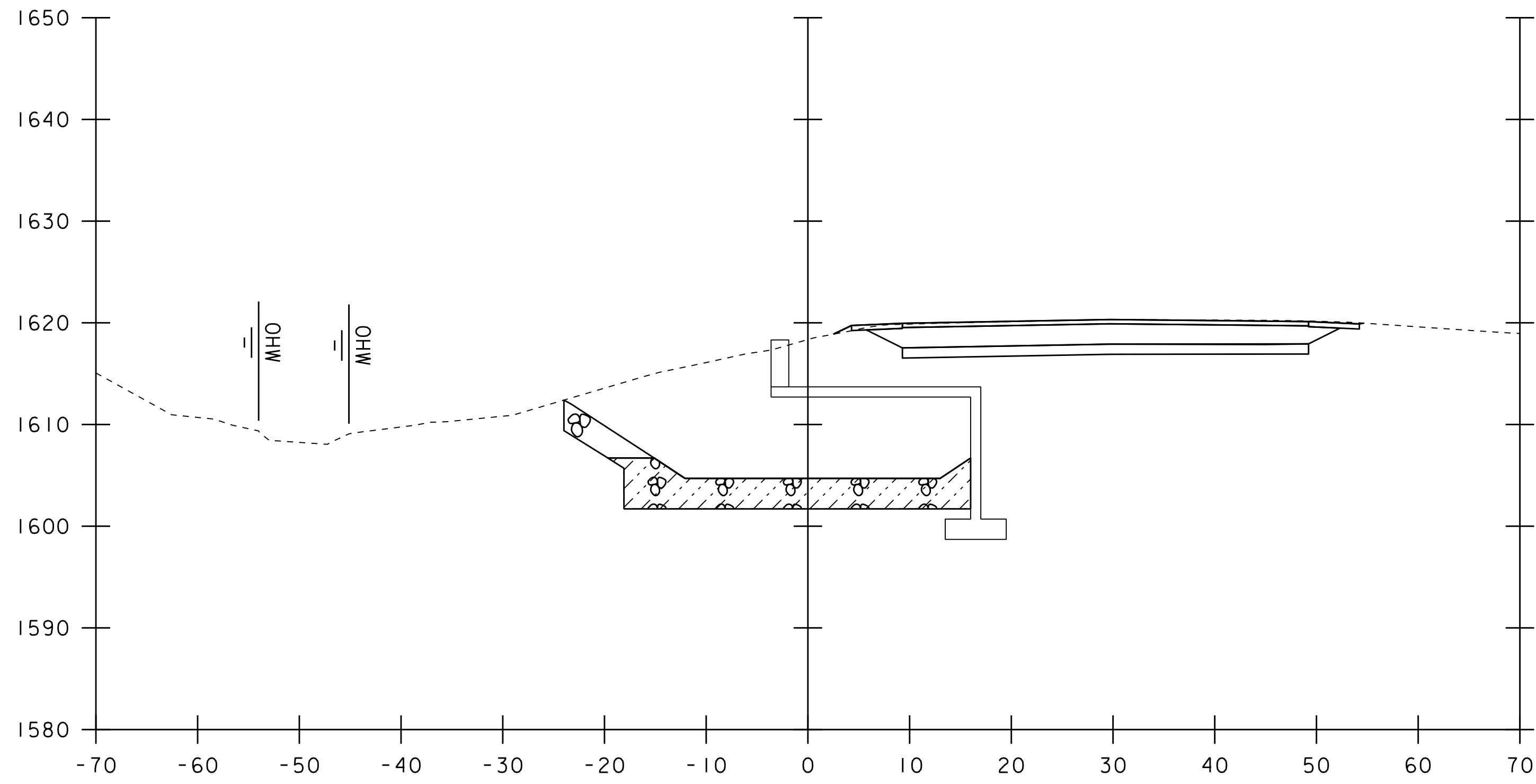
PROJECT NAME: MT. HOLLY	PLOT DATE: 09-NOV-2018
PROJECT NUMBER: BF 0133(12)	DRAWN BY: C.COTE
FILE NAME: sl2c594xs.dgn	CHECKED BY: C.MOONEY
PROJECT LEADER: R.YOUNG	SHEET 21 OF 25
DESIGNED BY: C.COTE	
CHANNEL SECTIONS SHEET 2	



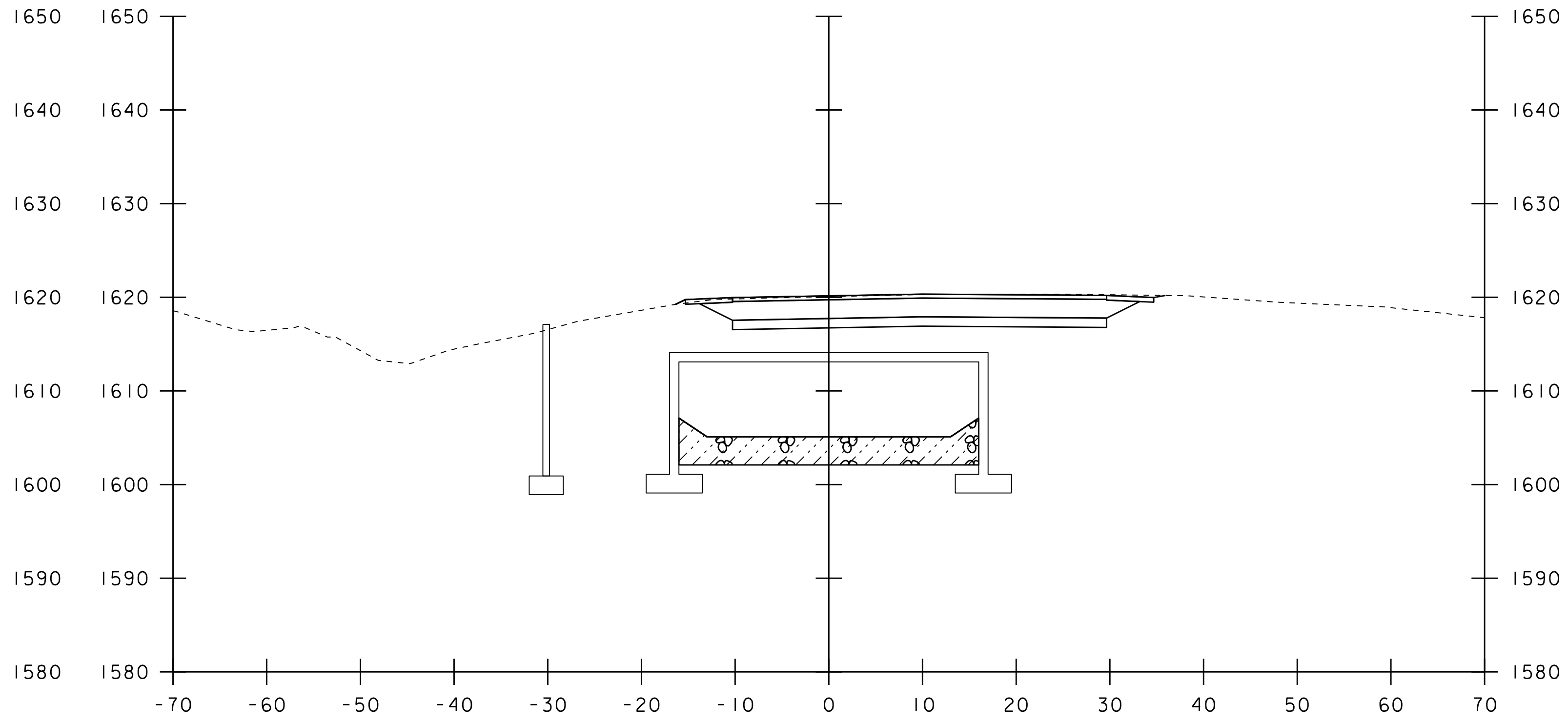
21+80



22+00



21+70

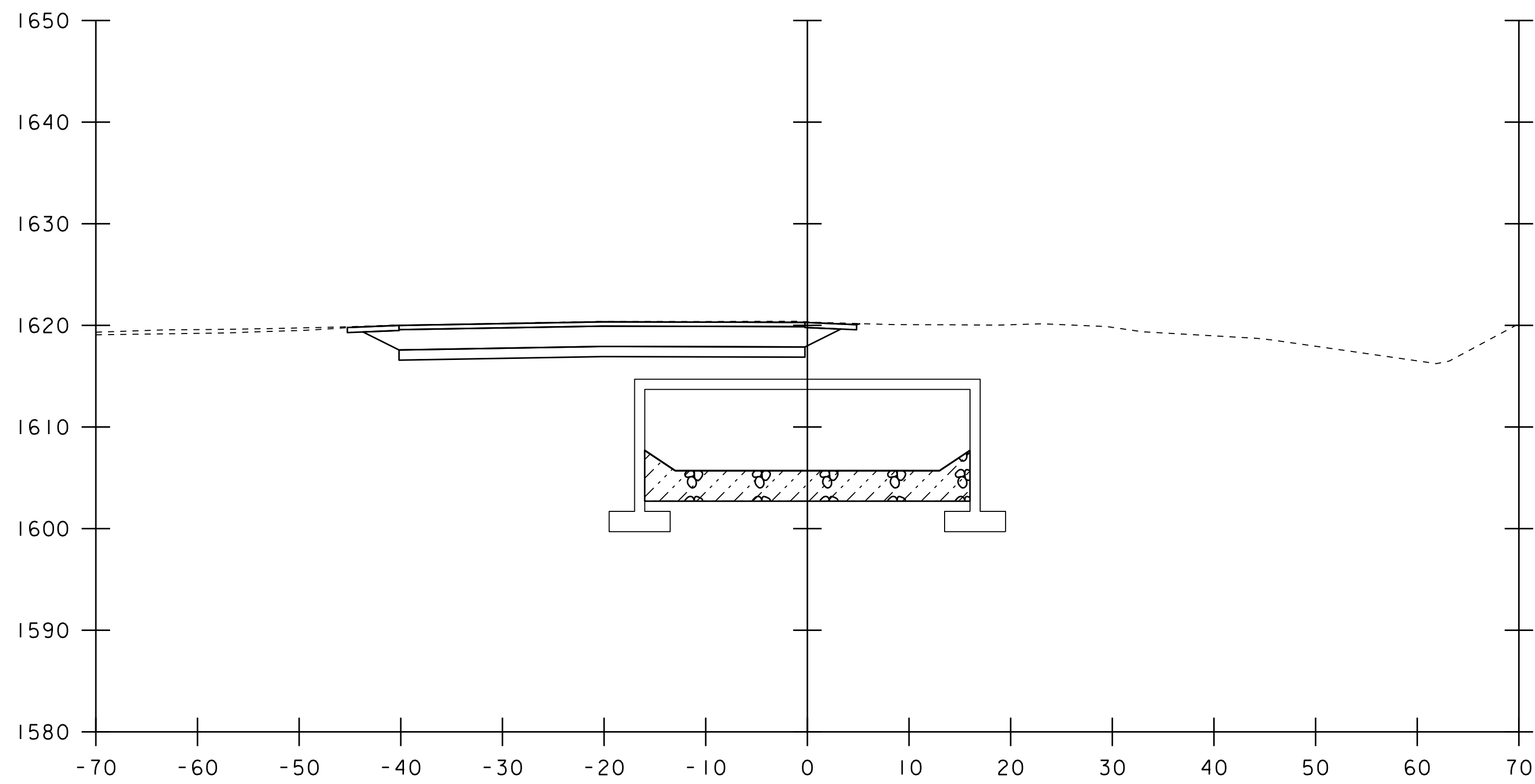


21+90

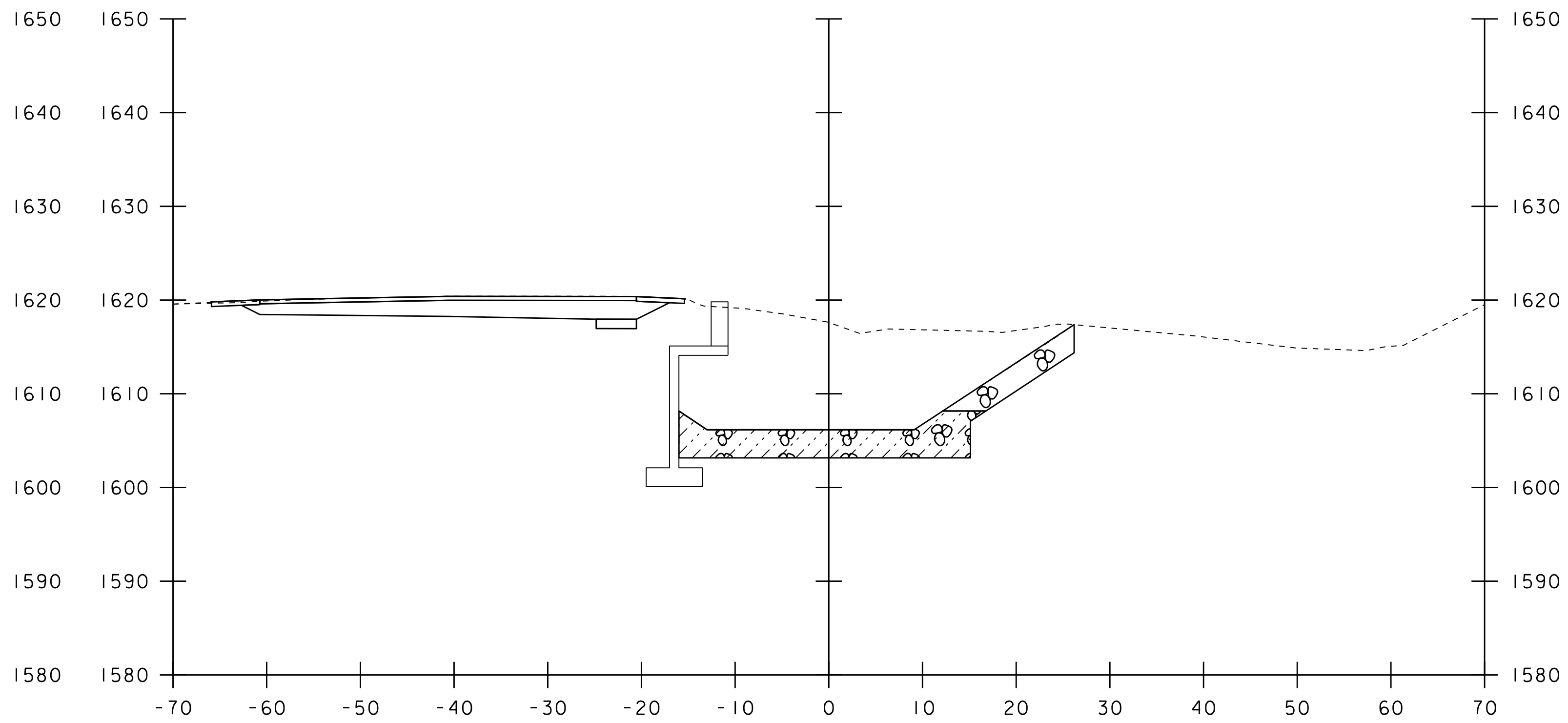
STA. 21+70 TO STA. 22+00

PROJECT NAME: MT. HOLLY	PLOT DATE: 09-NOV-2018
PROJECT NUMBER: BF 0133(12)	DRAWN BY: C.COTE
FILE NAME: sl2c594xs.dgn	CHECKED BY: C.MOONEY
PROJECT LEADER: R.YOUNG	SHEET 22 OF 25
DESIGNED BY: C.COTE	
CHANNEL SECTIONS SHEET 3	

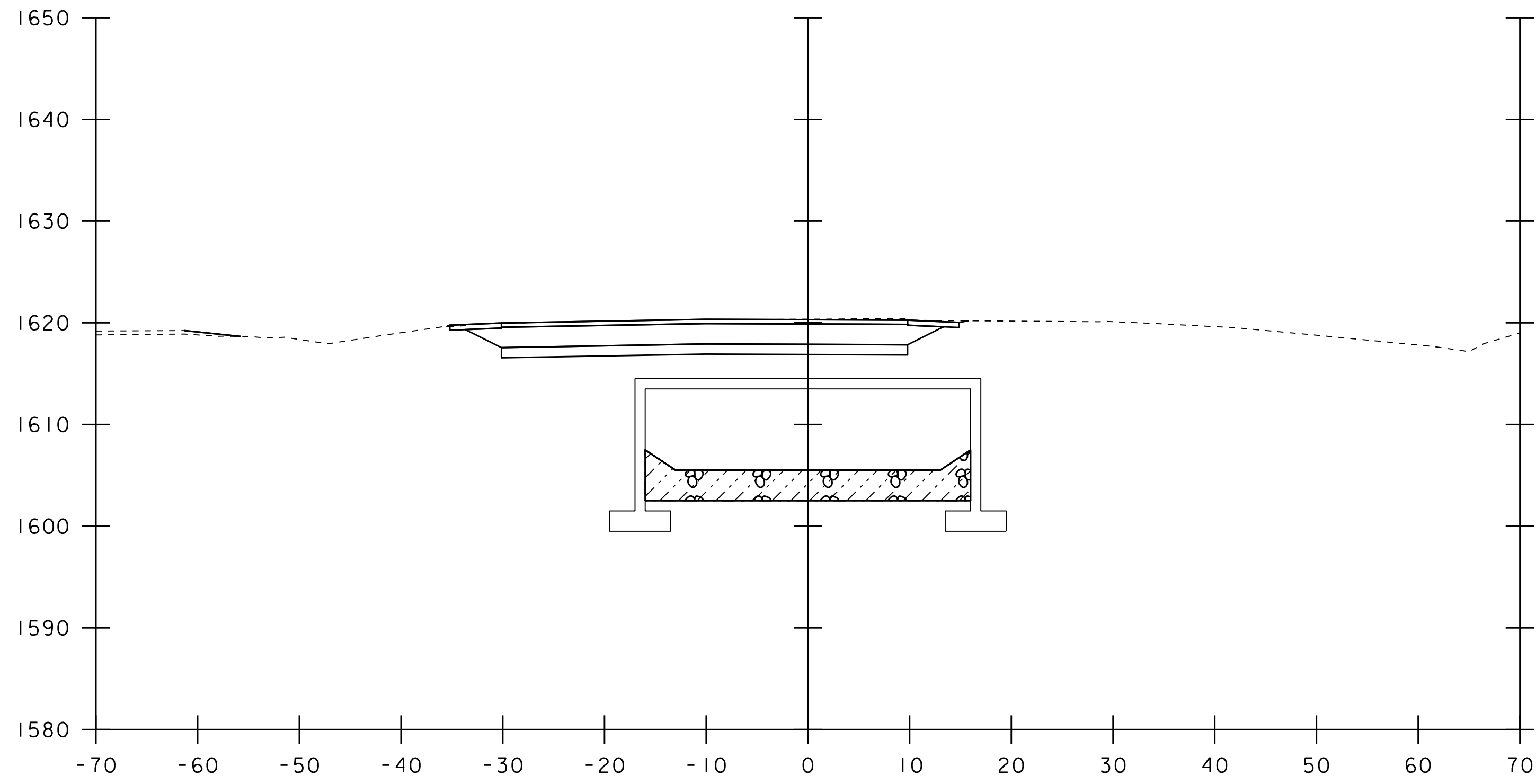




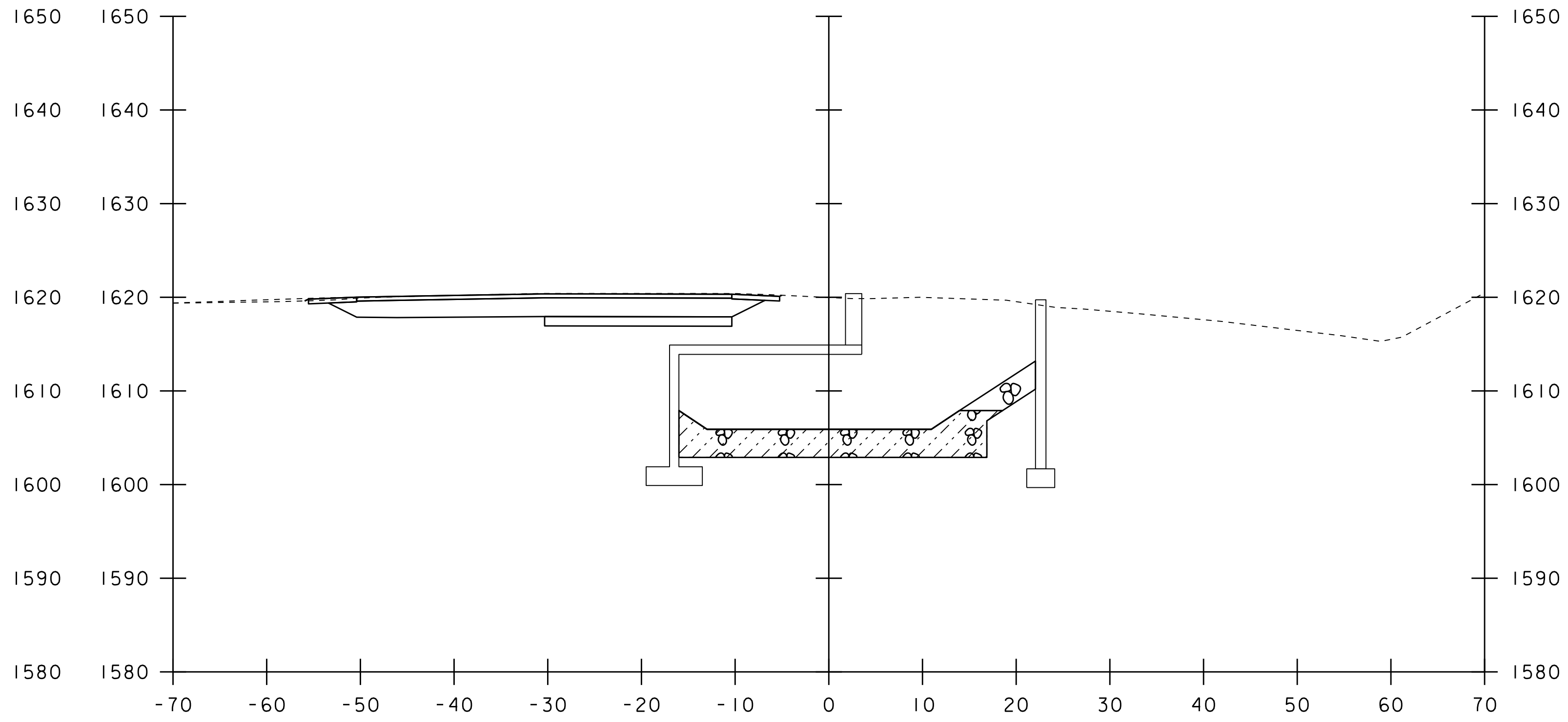
22+20



22+40



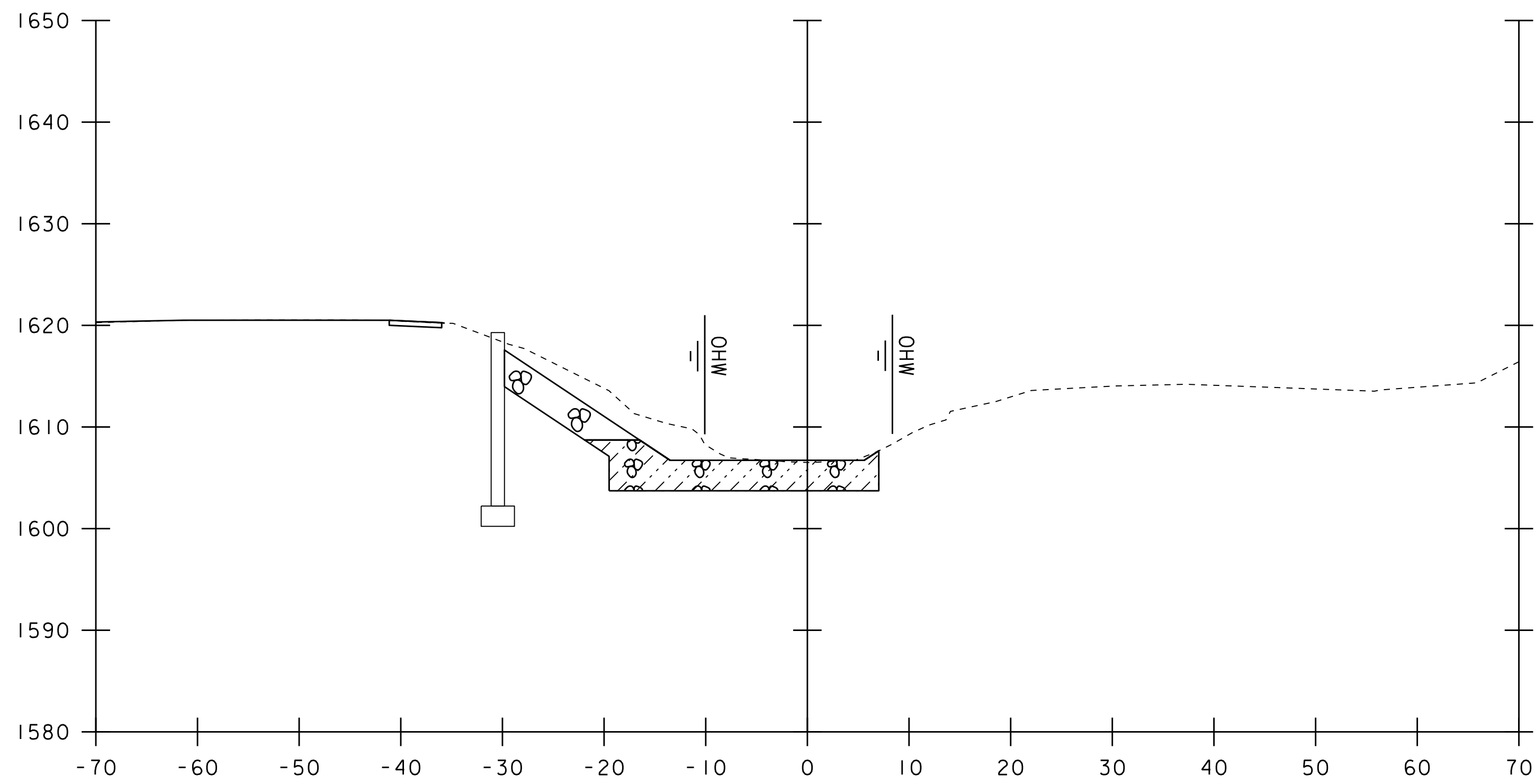
22+10



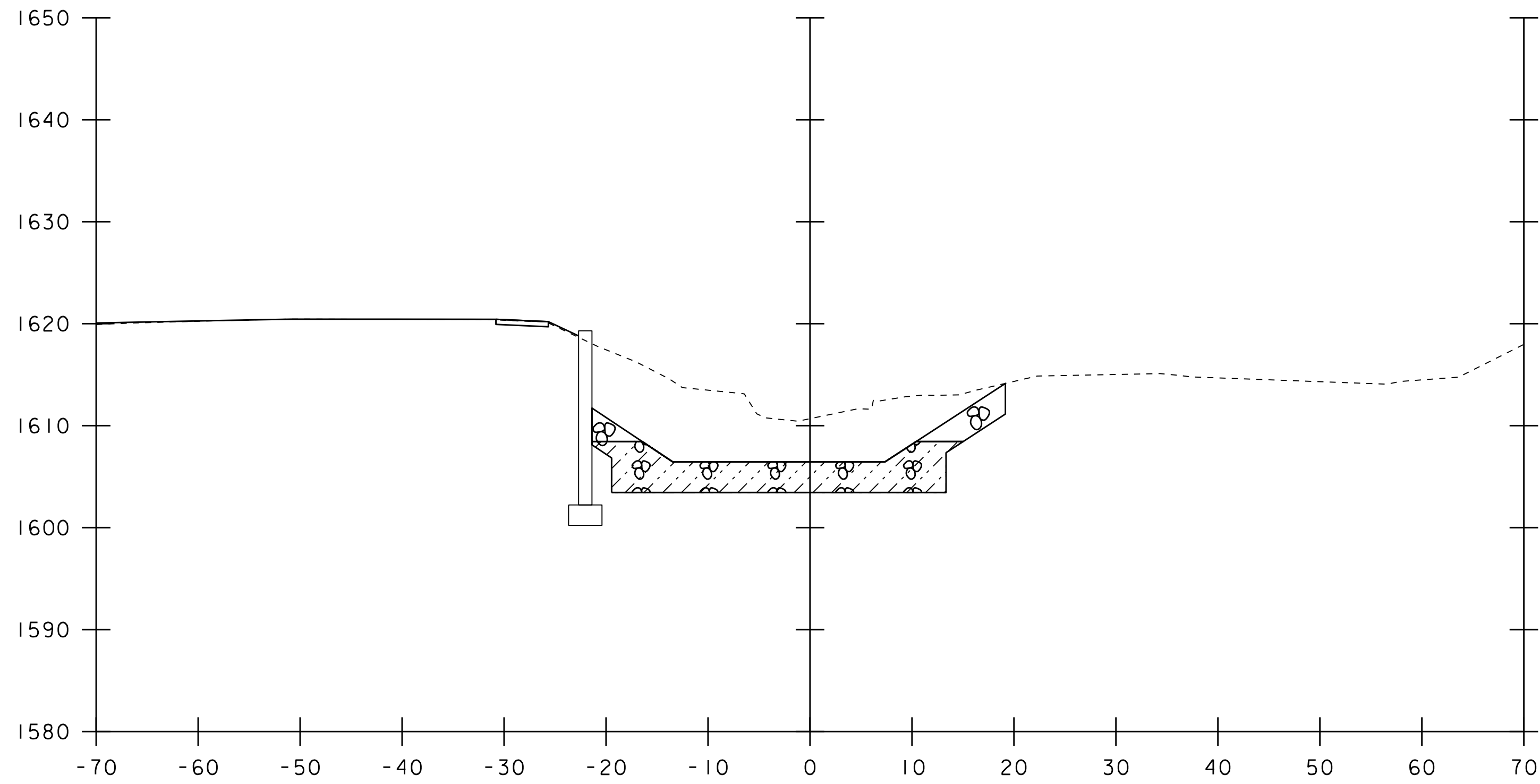
22+30

STA. 22+10 TO STA. 22+40

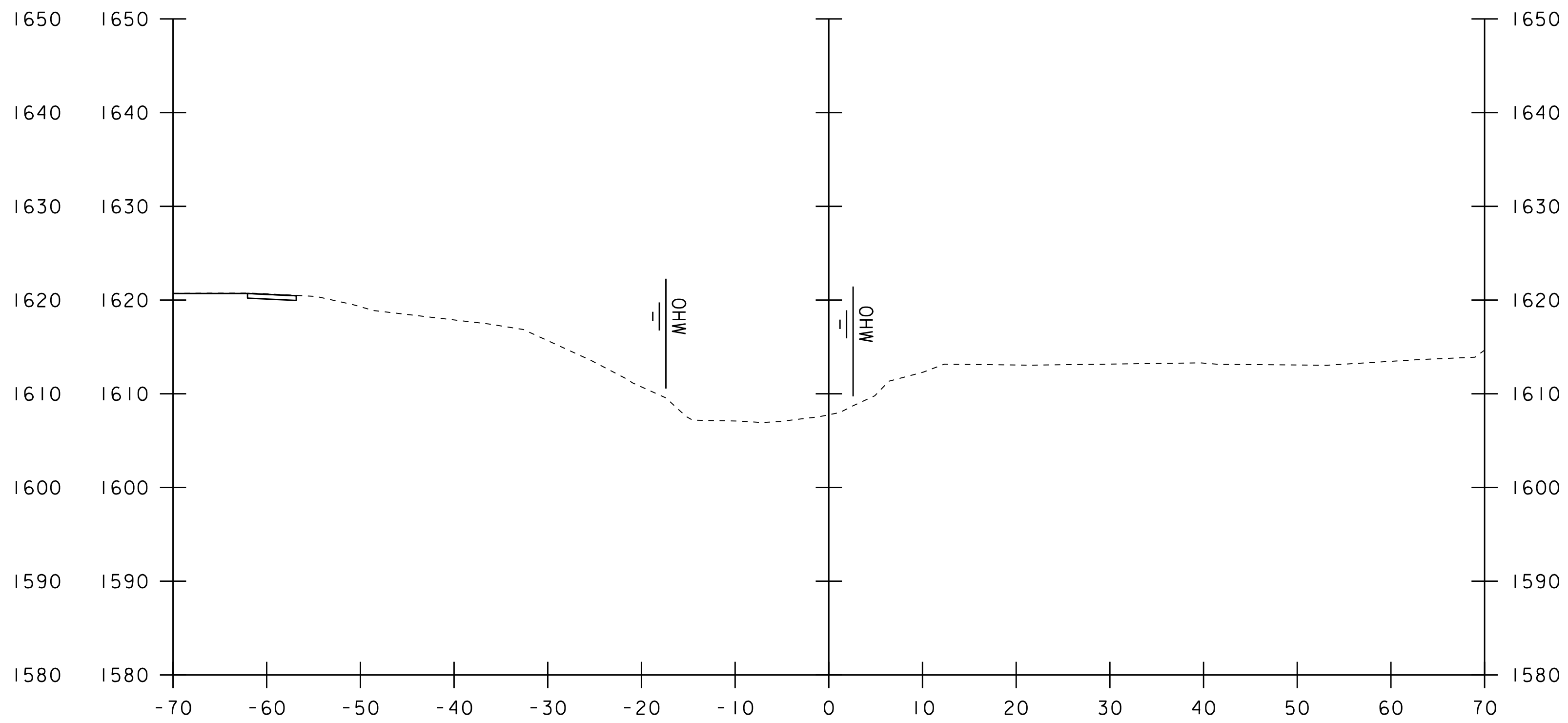
PROJECT NAME:	MT. HOLLY	PLOT DATE:	09-NOV-2018
PROJECT NUMBER:	BF 0133(12)	DRAWN BY:	C.COTE
FILE NAME:	sl2c594xs.dgn	DESIGNED BY:	C.COTE
PROJECT LEADER:	R.YOUNG	CHECKED BY:	C.MOONEY
CHANNEL SECTIONS SHEET 4		SHEET	23 OF 25



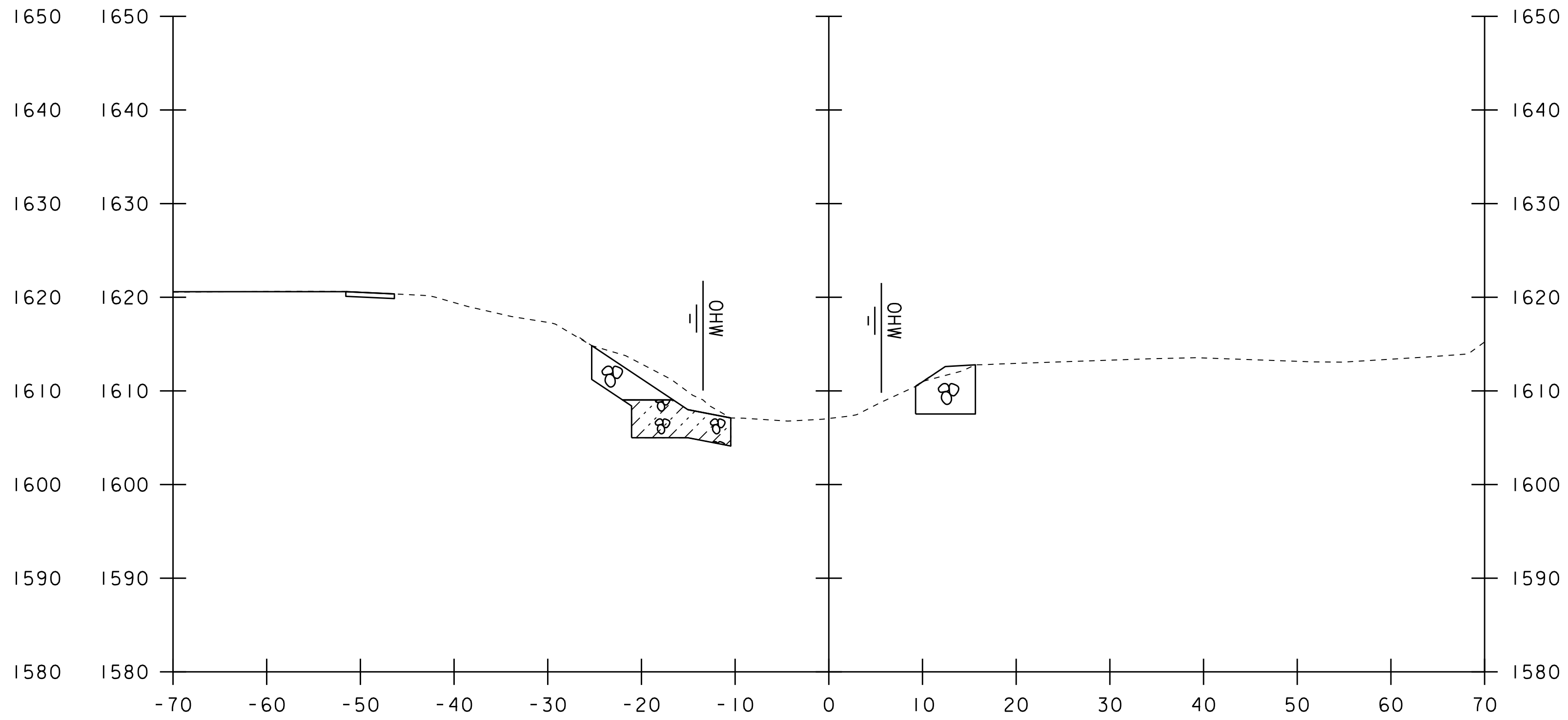
22+60



22+50



22+80



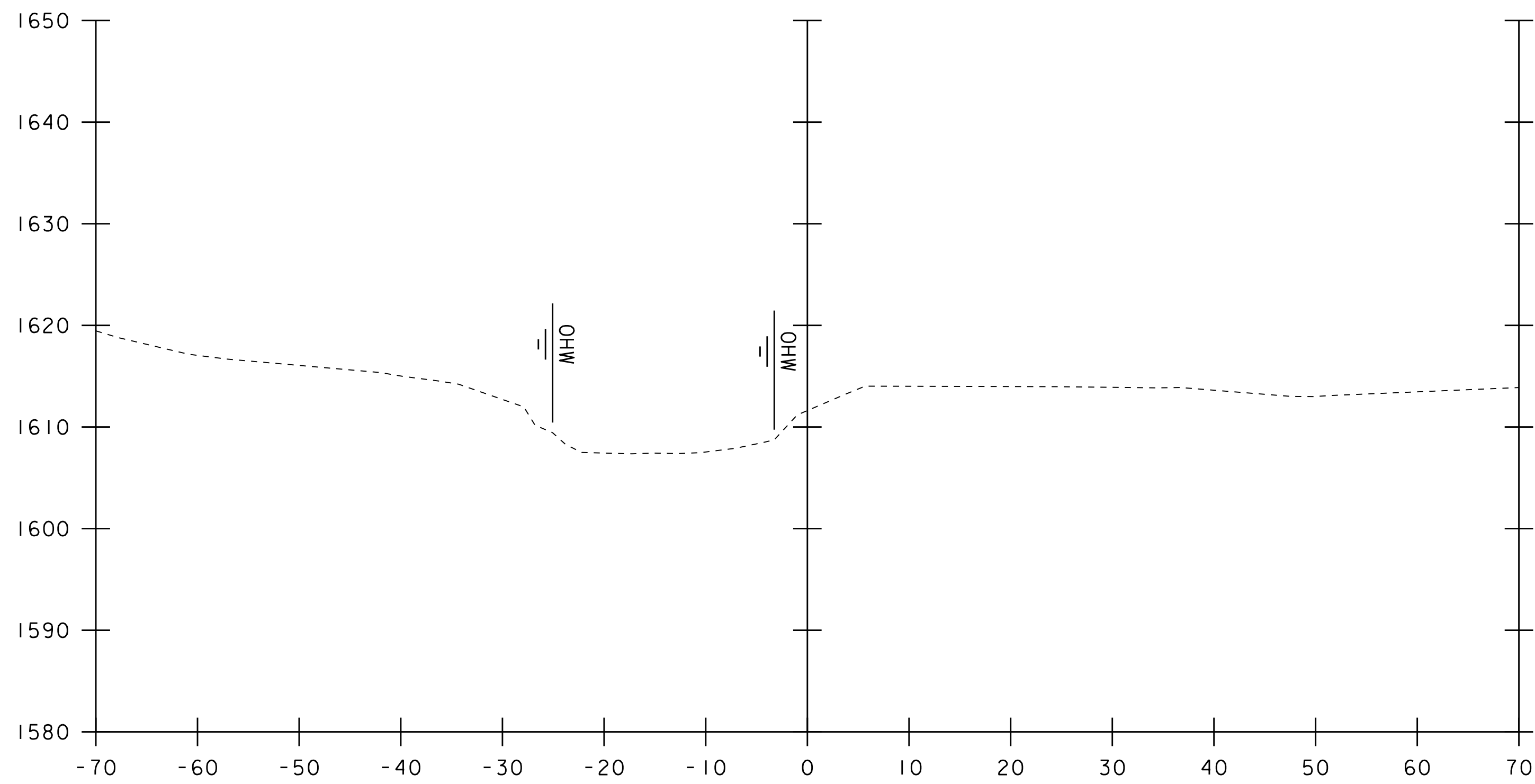
22+70

END 22+78 LT  
UNCLASSIFIED CHANNEL EXCAVATION  
STONE FILL TYPE III  
E-STONE FILL TYPE III  
GEOTEXTILE UNDER STONE FILL  
GRUBBING MATERIAL

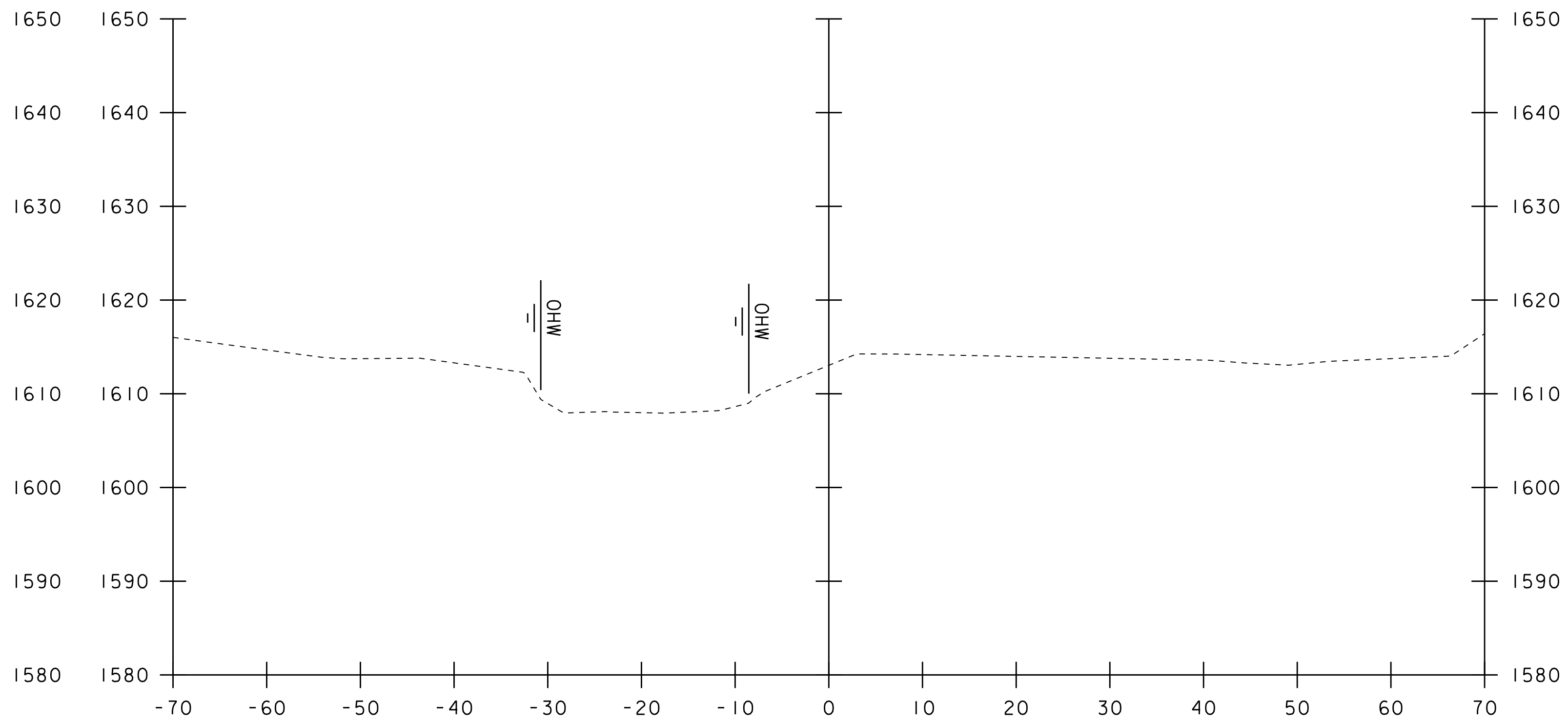
END 21+78 RT  
UNCLASSIFIED CHANNEL EXCAVATION  
STONE FILL TYPE III  
E-STONE FILL TYPE III  
GEOTEXTILE UNDER STONE FILL  
GRUBBING MATERIAL

STA. 22+50 TO STA. 22+80

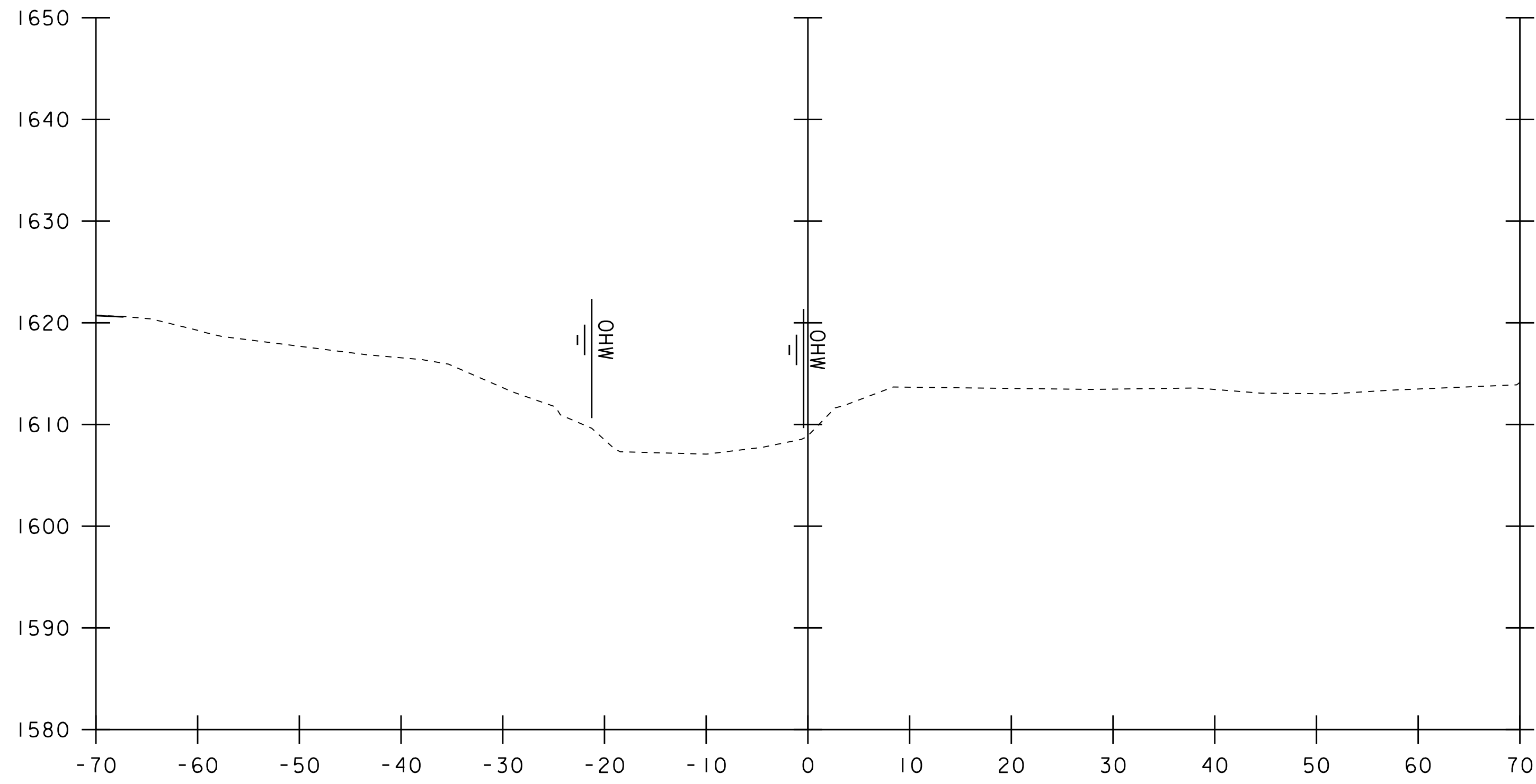
PROJECT NAME: MT. HOLLY	PLOT DATE: 09-NOV-2018
PROJECT NUMBER: BF 0133(12)	DRAWN BY: C.COTE
FILE NAME: sl2c594xs.dgn	CHECKED BY: C.MOONEY
PROJECT LEADER: R.YOUNG	SHEET 24 OF 25
DESIGNED BY: C.COTE	
CHANNEL SECTIONS SHEET 5	



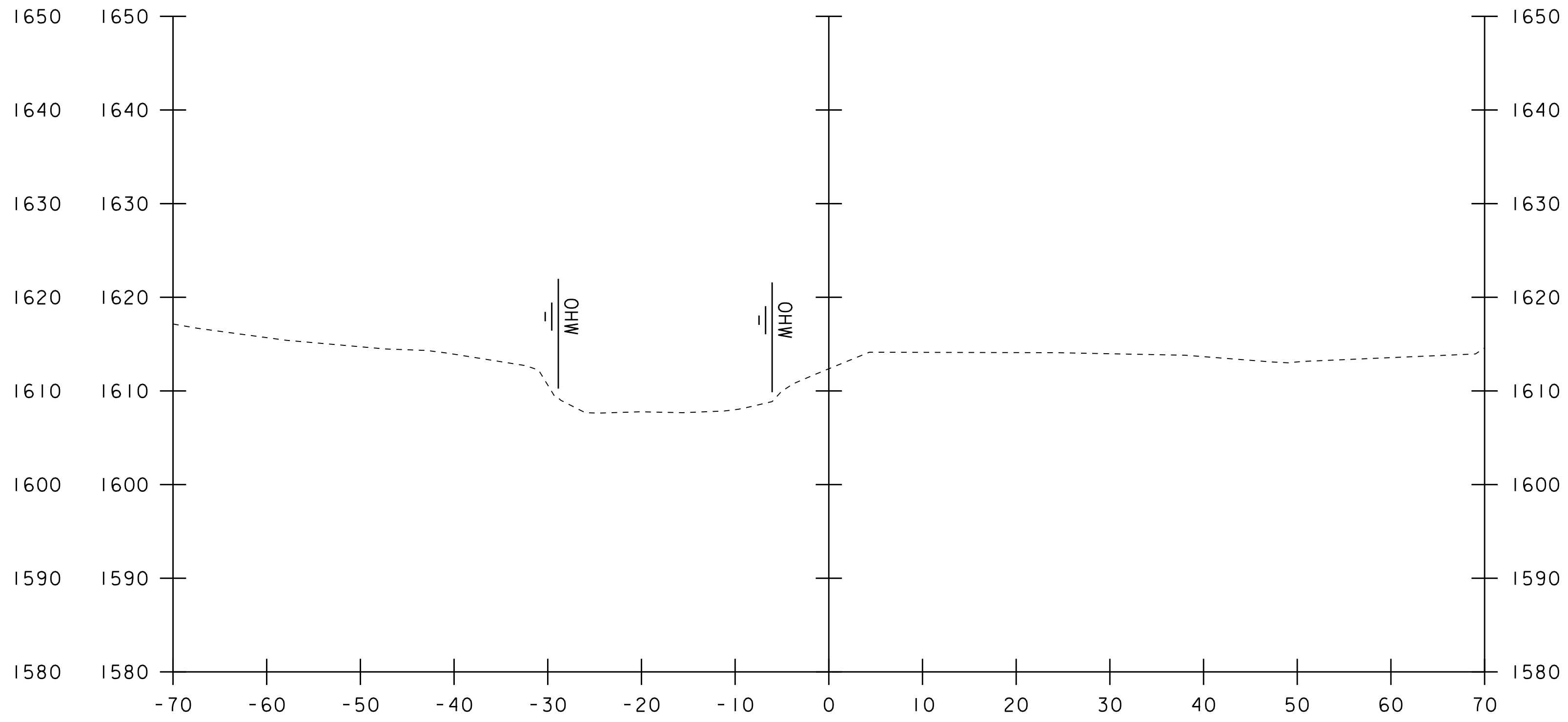
23+00



23+20



22+90



23+10

STA. 22+90 TO STA. 23+20

PROJECT NAME: MT. HOLLY	PLOT DATE: 09-NOV-2018
PROJECT NUMBER: BF 0133(12)	DRAWN BY: C.COTE
FILE NAME: sl2c594xs.dgn	CHECKED BY: C.MOONEY
PROJECT LEADER: R.YOUNG	SHEET 25 OF 25
DESIGNED BY: C.COTE	
CHANNEL SECTIONS SHEET 6	